

# Service Manual

## and Technical Guide

PERSONAL FACSIMILE

# KX-F7B

Simplified

Please use this manual together with the Service manual for model No. KX-F76, order No. KM49209291C3.  
This Service Manual indicates the main differences between; Original KX-F76 and KX-F7B.

### ■ SPECIFICATIONS (Change of original page 5)

#### 4. POWER SUPPLY SECTION

1	Input power supply	AC 110 V±10%	60 Hz
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(Model KX-F76)



Changed

1	Input power supply	AC 220–240 V	50/60 Hz
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(Model KX-F7B)

Panasonic

# KX-F7B

## ■ REPLACEMENT PARTS LIST (Change of original pages 87~95)

REPLACEMENT PARTS LIST			Model KX-F7B	
Ref. No.	Part No.	Part Name & Description		Pcs
42	PQQT1021BZ	CAUTION LABEL-B		1
43	PQHP506Z	CARD, TEL.		1
44	PQHR518Z	TRANSPARENT PLATE, TEL. CARD		1
45	PQAS5P05Y	SPEAKER		1
46	PQJE10009Z	FLAT CABLE, 9P		1
47	PQJE10010Z	FLAT CABLE, 13P		1
48	PQJS2L103Z	CONNECTOR, 2P		1
49	PQHR10044Z	COVER		1
50	PQMH10006Z	ANGLE		1
51	PQBD10005Z	KNOB, VOLUME		1
53	PQBH10005Z	KNOB, HOOK		1
54	PQKM10010Z	HANDSET CRADLE, UPPER		1
55	PQYM2F76XTW	HANDSET CRADLE ASS'Y, LOWER		1
60	PQZU1KXPW1	METAL PLATE, RECORDING PAPER COVER LOCK		1
61	PQZLKXPW1	LEVER, SENSOR		1
62	PQJS9M44Y	CONNECTOR, 9P		1
63	PQJS10M48Z	CONNECTOR, 10P		1
64	PQWEKXPW1	THERMAL HEAD ASS'Y		1
65	PQUS299Z	SPRING, THERMAL HEAD		1
66	PQLB1E1	CORE		3
67	PQZU2KXPW1	ANGLE, RECORDING COVER LOCK		1
68	PQZEKXPW1	GEAR CHASSIS ASS'Y		1
69	PQJS12R24Y	CONNECTOR, 12P		1
70	PQJS4M33Z	CONNECTOR, 4P		1
71	XUC25FY	RETAINING RING		1
72	PQUS10004Z	SPRING		1
73	PQMX10003Z	INSULATOR SHEET		1
74	PQJE10008Z	FLAT CABLE, 18P		1
75	PQNP10001Z	WASHER		1
76	PQHR10004Z	SPACER, IMAGE BOARD		1
77	PQHR10006Z	BAND, LEAD WIRE		1
78	PQJE10011Z	FLAT CABLE, 8P		1
79	PQJE10004Z	FLAT CABLE, 10P		2
80	PQJS06R23Z	CONNECTOR, 6P		1
CABINET, MECHANICAL AND ELECTRICAL PARTS				
1	PQKE114W	DOCUMENT TRAY	1	
2	PQYM1F76XTW	UPPER CABINET ASS'Y	1	
2-1	PQHR9711Y	COVER, GUIDE	1	
2-2	PQHR9710Z	GUIDE-R	1	
2-3	PQHR9709Z	GUIDE-L	1	
2-4	PQDG5078Z	GEAR	1	
3	PQUV126W	COVER, OPERATION PANEL	1	
4	PQUP10098Z	FLEXIBLE CABLE	1	
5	PQHR9729Y	PLASTIC PARTS, BUTTON	1	
6	PQBCX250Z	BUTTON, FUNCTION	1	
7	POBC334T	BUTTON, START	1	
8	PQBC335T	BUTTON, STOP	1	
9	PQYGF76XTW	OPERATION PANEL ASS'Y	1	
10	PQHM174Z	ARM-R	1	
11	POHM175Z	ARM-L	1	
12	PQUS10002Y	SPRING, ARM	1	
13	PQBCX10004Z	BUTTON, DIAL	1	
14	PQBCX10007Z	BUTTON, PAUSE/REDIAL	1	
15	PQBC10019Z	BUTTON, MONITOR	1	
16	PQGP10006Z	COVER, LED	3	
17	PQGK10004Y	ORNAMENT	1	
18	PQNW368Y	WASHER	1	
19	PQQT10219Z	CAUTION LABEL-A	1	
30	PQUV125Y	COVER, RECORDING PAPER	1	
31	PQMD2024X	ANGLE	1	
32	PQDN32Z	ROLLER, RECORDING PAPER FEED	1	
33	PQHR9718Z	SPACER, RECORDING PAPER ROLLER	2	
34	PQDG5075Z	GEAR	1	
35	PQMD10004Z	ANGLE, BOTTOM	1	
36	PQYFF76XTW	LOWER CABINET ASS'Y	1	
37	PQWAF7BX	POWER CORD ASS'Y	1	
38	PQYTKXPW1	KNOB, RECORDING PAPER COVER OPEN	1	
39	PQBD183Y	KNOB, FRONT LID OPEN	S	1
40	PQGP155Z	PANEL, RECORDING PAPER	1	
41	PQGT10278Z	NAME PLATE	1	
CCD UNIT PARTS				
300	PQSGX017Y	CCD UNIT ASS'Y		1
300-1	PQDG5074Z	GEAR		1
300-2	PQDN31Z	ROLLER, DOCUMENT FEED		1
300-3	PQHR9713Z	COVER		1
300-4	PQHR10040Z	SPACER, DOCUMENT FEED ROLLER		2
300-5	PQHR9719Z	LEVER, DOCUMENT DETECT		2
300-6	PQUS315Z	SPRING, SENSOR LEVER		2
300-7	PQUS299Z	SPRING		1
300-8	PQ0G4Z	GLASS		1
ACCESSORIES AND PACKING MATERIALS				
A1	PQJX2PDAG01Y	HANDSET		1
A2	PQJA212N	HANDSET CORD		1
A3	PQJA59V	TEL. CORD		1
A4	PQHP419Z	RECORDING PAPER		1
A5	PQQX10121Z	INSTRUCTION BOOK (CHINESE)		1
A6	PQQW10127Z	MARK SHEET-1 (CHINESE)		1
A7	PQQW10128Z	MARK SHEET-2 (CHINESE)		1
A8	PQQW10129Z	MARK SHEET-3 (CHINESE)		1
A9	PQQW10130Z	MARK SHEET-4 (CHINESE)		1
A10	XZB30X25A04	PROTECTION COVER (ACCESSORIES)		1
A11	XZB25X34A04	PROTECTION COVER (DOCUMENTS)		1
A12	PQHR9723Z	PARTING PLATE-A		1
A13	PQHR9724Z	PARTING PLATE-B		1
A14	PQOX10123Z	INSTRUCTION BOOK (ENGLISH)		1
A15	PQOW10016Z	MARK SHEET-1 (ENGLISH)		1
A16	PQOW10017Z	MARK SHEET-2 (ENGLISH)		1
A17	PQOW10133Z	MARK SHEET-3 (ENGLISH)		1
A18	PQOW10019Z	MARK SHEET-4 (ENGLISH)		1
P1	PQPK10150Z	GIFT BOX		1
P2	PQPN935Z	HANDLE		1
P3	PQPN10038Z	CUSHION-L		1
P4	PQPN10039Z	CUSHION-R		1
P5	PQPN10065Z	ACCESSORY BOX		1
P6	PQPH79Z	PROTECTION COVER (UNIT)		1

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
<b>MAIN BOARD PARTS</b>							
PCB1	PQWP1F7BX	MAIN BOARD ASS'Y (RTL)	1	SW1	PQSS3B10W	(SWITCHES)	
IC1	PQVIR96MFXS	(ICs)		SW2	PQSS2A27W	SWITCH, RINGER	1
IC2	PQVIZ8400L8V	IC	1	SW3	PQSS2A27W	SWITCH, PROGRAM	1
IC3	PQWIF7BX	IC	1	T1	ETA14Y85AY	SWITCH, PAPER SAVE	1
IC4, 5	PQVICX5864MC	IC	2	T2	PQLT8F5A	(TRANSFORMERS)	
IC6	PQVIE58R55F	IC	1			COMMUNICATION TRANSFORMER	1
IC7	PQVIRIP5C62	IC	1			DTMF TRANSFORMER	1
IC8	PQVIM5195BL	IC	1	X1	PQVCJ2400N9Z	(CRYSTAL OSCILLATORS &	
IC9	PQVITC4053BF	IC	1	X2	PQVCJ1600N9Z	CRYSTAL OSCILLATOR	1
IC10, 11, 12	PQVINJM082BM	IC	3	X3	PQVCL3276N6Z	CRYSTAL OSCILLATOR	1
IC14	PQVIBA12003	IC	1	X4	PQVBT4.19G2	CRYSTAL OSCILLATOR	1
IC15	PQVI672191F	IC	1	C1	ECQE2E224JZ	CERAMIC FILTER	1
IC16	PQVINJM2901M	IC	1	C2	ECEA1HN3R3S	(CAPACITORS)	
IC17	PQVIMT3274AE	IC	1	C3	ECEA1HU3R3	0.22	1
IC19	PQVIPD7HU04S	IC	1	C4	ECEA1HU100	3.3	1
IC20	PQVIPD7H245G	IC	1	C5	PQCUV1C683MD	3.3	1
IC21-26	PQVINJM4558M	IC	6	C6	PQCUV1H151JC	0.068	1
IC27	PQVITC4053BF	IC	1	C9	PQCUV1H221JC	150P	1
		(TRANSISTORS)		C10	PQCUV1E104MD	220P	1
Q1	2SB1322	TRANSISTOR(SI)	S 1	C11	PQCUV1H101JC	0.1	1
Q2, 21	2SB1218A	TRANSISTOR(SI)	S 2	C12	PQCUV1E104MD	100P	1
Q22, 23, 24	PQVTDT143E	TRANSISTOR(SI)	3	C13	PQCUV1E104MD	0.1	1
Q25	2SB1218A	TRANSISTOR(SI)	S 1	C14	PQCUV1H151JC	10	1
Q26-31	2SD1819A	TRANSISTOR(SI)	S 6	C15	PQCUV1E104MD	150P	1
Q32, 33	2SB1322	TRANSISTOR(SI)	S 2	C16	PQCUV1H101JC	0.1	1
Q34, 36-39	PQVTDT143E	TRANSISTOR(SI)	5	C21	PQCUV1E224MD	100P	1
Q40	2SB1322	TRANSISTOR(SI)	S 1	C22	PQCUV1H331JC	0.22	1
Q42, 43	2SD1994A	TRANSISTOR(SI)	2	C23	PQCUV1E104MD	330P	1
Q50	PQVTDT143E	TRANSISTOR(SI)	1	C24	PQCUV1H101JC	0.1	1
Q50A	2SC2235	TRANSISTOR(SI)	1	C25	PQCUV1H102J	100P	1
Q51	PQVTDTA114YU	TRANSISTOR(SI)	S 1	C26	ECEA1HN3R3S	0.001	1
Q53, 54	2SD1819A	TRANSISTOR(SI)	S 2	C51	PQCUV1E104MD	3.3	1
		(DIODES)		C52	PQCUV1H103KB	0.1	1
D1	PQVDSSV3SS	DIODE(SI)	1	C53	PQCUV1H103KB	0.01	1
D2	RLS71	DIODE(SI)	1	C54	PQCUV1E104MD	0.1	1
D3	PQVDHZS2B1	DIODE(SI)	1	C56	PQCUV1E104MD	0.1	1
D5, 6	RLS71	DIODE(SI)	2	C57	PQCUV1E104MD	0.1	1
D8	PQVDHZS2B1	DIODE(SI)	1	C58	PQCUV1E104MD	0.1	1
				C59	PQCUV1E104MD	0.1	1
D21	MA700A	DIODE(SI)	1	C60	PQCUV1E104MD	0.1	1
D22	MA4051	DIODE(SI)	1	C61	PQCUV1H120JC	12P	1
D23	RLS71	DIODE(SI)	1	C62	PQCUV1H120JC	12P	1
D24	PQVDHZS3A1	DIODE(SI)	S 1	C63	PQCUV1H180JC	18P	1
D25-29	RLS71	DIODE(SI)	5	C64	PQCUV1H180JC	18P	1
D30	1SS147	DIODE(SI)	1	C65	PQCUV1E104MD	0.1	1
D31	MA7200	DIODE(SI)	1	C66	ECEA1HU4R7	4.7	1
D34-37	RLS71	DIODE(SI)	4	C67	ECUV1H334ZF	0.33	1
D38	MA723	DIODE(SI)	1	C68	PQCUV1E104MD	0.1	1
				C69	PQCUV1E104MD	0.1	1
D41	PQVDHZS2B1	DIODE(SI)	1	C70	ECUV1H334ZF	0.33	S 1
D43	RLS71	DIODE(SI)	1	C72	ECEB0JU220	22	1
D44, 45	MA723	DIODE(SI)	2	C73	ECUV1H334ZF	0.33	S 1
				C74	PQCUV1H102J	0.001	1
D51	PQVDS1YB40F1	DIODE(SI)	1	C75	PQCUV1E104MD	0.1	1
		(PHOTO ELECTRIC TRANSDUCERS)		C76	PQCUV1E104MD	0.1	1
PC1	PQVIPC814K	PHOTO COUPLER	S 1	C77	PQCUV1H102J	0.001	1
PC2, 3	PQVIPC817CD	PHOTO COUPLER	2	C78	PQCUV1H331JC	330P	1
				C79	PQCUV1E104MD	0.1	1
RLY1	PQSL76Z	(RELAYS)	S 1	C80	PQCUV1E104MD	0.1	1
RLY2	PQSL112Z	RELAY	1	C81	PQCUV1H103KB	0.01	1
		RELAY		C82	PQCUV1H103KB	0.01	1

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Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Value	Pcs
C83	PQCUV1E104MD	0.1	1	R1	ERDS1TJ473	(RESISTORS)	
C85	PQCUV1H330JC	33P	1	R3	ERDS2TJ120	47K	1
C86	PQCUV1H180JC	18P	1	R4	PQ4R10XJ103	12	1
C87	PQCUV1E473MD	0.047	1	R5	PQ4R10XJ103	10K	1
C88	PQCUV1E104MD	0.1	1	R6	PQ4R10XJ683	10K	1
C89	ECEA1EU470	47	S 1	R7	PQ4R10XJ561	68K	1
C90	PQCUV1E104MD	0.1	1	R8	PQ4R10XJ682	560	1
C91	PQCUV1E104MD	0.1	1	R9	ERDS2TJ560	6.8K	1
C92	PQCUV1E104MD	0.1	1	R10	PQ4R10XJ103	56	1
C93	PQCUV1E104MD	0.1	1	R11	PQ4R10XJ473	10K	1
C94	PQCUV1H103KB	0.01	1	R12	PQ4R10XJ103	47K	1
C95	PQCUV1E104MD	0.1	1	R13	PQ4R10XJ104	10K	1
C96	PQCUV1E104MD	0.1	1	R14	PQ4R10XJ124	100K	1
C97	PQCUV1E104MD	0.1	1	R15	PQ4R10XJ124	120K	1
C98	PQCUV1E104MD	0.1	1	R16	PQ4R10XJ104	100K	1
C99	PQCUV1E104MD	0.1	1	R17	PQ4R10XJ104	100K	1
C100	PQCUV1H101JC	100P	1	R18	PQ4R10XJ124	120K	1
C101	PQCUV1E104MD	0.1	1	R19	PQ4R10XJ122	1.2K	1
C102	PQCUV1E104MD	0.1	1	R20	PQ4R10XJ223	22K	1
C103	PQCUV1H101JC	100P	1	R21	PQ4R10XJ473	47K	1
C104	PQCUV1H103KB	0.01	1	R22	PQ4R10XJ564	47K	1
C105	ECEA1EU101	100	S 1	R23	PQ4R10XJ683	560K	1
C106	PQCUV1H682KB	0.0068	1	R24	PQ4R10XJ394	56K	1
C107	PQCUV1E104MD	0.1	1	R25	PQ4R10XJ473	390K	1
C108	PQCUV1E104MD	0.1	1	R26	PQ4R10XJ564	120K	1
C109	PQCUV1E104MD	0.1	1	R27	PQ4R10XJ223	56K	1
C111, 115, 116	PQCUV1E104MD	0.1	3	R29	PQ4R10XJ682	6.8K	1
C118	ECEA1VU221	220	1	R30	PQ4R10XJ684	100K	1
C119	ECEA1EU101	100	S 1	R31	PQ4R10XJ563	680K	1
C120	ECEA1AU221	220	S 1	R32	PQ4R10XJ104	56K	1
C121	ECEA1EU101	100	S 1	R33	PQ4R10XJ222	100K	1
C122	PQCUV1E104MD	0.1	1	R34	PQ4R10XJ184	2.2K	1
C123	PQCUV1E104MD	0.1	1	R35	PQ4R10XJ563	180K	1
C124	PQCUV1E104MD	0.1	1	R36	PQ4R10XJ563	56K	1
C125, 127	PQCUV1E104MD	0.1	2	R37	PQ4R10XJ473	56K	1
C131	PQCUV1E224MD	0.22	1	R43,	PQ4R10XJ104	4.7K	1
C132	PQCUV1C683MD	0.068	1	R44, 45, 46	PQ4R10XJ103	4.7M	3
C136	PQCUV1E104MD	0.1	1	R51	PQ4R10XJ103	10K	1
C137	PQCUV1E104MD	0.1	1	R52	PQ4R10XJ475	10K	1
C138	PQCUV1E104MD	0.1	1	R53	PQ4R10XJ331	4.7M	1
C139	PQCUV1E104MD	0.1	1	R55	PQ4R10XJ000	330	1
C140	PQCUV1E104MD	0.1	1	R56	PQ4R10XJ222	0	1
C155	PQCUV1H681JC	680P	1	R57	PQ4R10XJ472	2.2K	1
C156	PQCUV1E224MD	0.22	1	R58	PQ4R10XJ472	4.7K	1
C157	PQCUV1E104MD	0.1	1	R59	PQ4R10XJ103	4.7K	1
C158	PQCUV1E104MD	0.1	1	R60	PQ4R10XJ103	10K	1
C159	PQCUV1E104MD	0.1	1	R61	PQ4R10XJ473	10K	1
C162	PQCUV1H103KB	0.01	1	R62	ERD25TJ120	47K	1
C163	PQCUV1E104MD	0.1	1	R63	ER016CKF8662	12	1
C164	PQCUV1E104MD	0.1	1	R64	PQ4R10XJ332	86.6K	1
C165	PQCUV1H150JC	15P	1	R65	PQ4R10XJ563	56K	1
C166	PQCUV1E104MD	0.1	1	R66	PQ4R10XJ275	56K	1
C167	PQCUV1E473MD	0.047	1	R67	ER016CKF8662	2.7M	1
C172	PQCUV1H103KB	0.01	1	R68	PQ4R10XJ272	86.6K	1
C177	PQCUV1H332KB	0.0033	1	R69	PQ4R10XJ683	2.7K	1
C178	PQCUV1H103KB	0.01	1	R70	ER016CKF1002	68K	1
C200	PQCUV1E104MD	0.1	1	R71	ER016CKF3652	10K	1
C600	ECEA1HU3R3	3.3	1	R72	PQ4R10XJ332	36.5K	1
C601	ECEA1HU100	10	1	R73	PQ4R10XJ332	3.3K	1
C1001	ECSTCM0JD686	68	1	R74	ERD25TJ271	3.3K	1
				R75	PQ4R10XJ222	270	1
				R76	PQ4R10XJ562	2.2K	1
				R77	PQ4R10XJ222	5.6K	1
				R78	PQ4R10XJ472	2.2K	1
				R79	PQ4R10XJ154	4.7K	1
				R80	PQ4R10XJ152	150K	1
				R81	PQ4R10XJ000	1.5K	1
				R82	PQ4R10XJ223	0	1
						22K	1

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R83	PQ4R10XJ682	6.8K	1	R164	PQ4R10XJ101	100	1
R84	PQ4R10XJ471	470	1	R165	PQ4R10XJ682	6.8K	1
R85	PQ4R10XJ562	5.6K	1	R166	PQ4R10XJ103	10K	1
R86	PQ4R10XJ472	4.7K	1	R167	PQ4R10XJ000	0	1
R87	PQ4R10XJ103	10K	1	R171	PQ4R10XJ473	47K	1
R88	PQ4R10XJ332	3.3K	1	R172	PQ4R10XJ000	0	1
R89	PQ4R10XJ182	1.8K	1	R174	PQ4R10XJ473	47K	1
R90	PQ4R10XJ223	22K	1	R179	PQ4R10XJ331	330	1
R91	PQ4R10XJ331	330	1	R180	PQ4R10XJ331	330	1
R92	PQ4R10XJ331	330	1	R181	PQ4R10XJ331	330	1
R93	PQ4R10XJ331	330	1	R182	PQ4R10XJ562	5.6K	1
R94	PQ4R10XJ331	330	1	R183	PQ4R10XJ153	15K	1
R95	PQ4R10XJ103	10K	1	R185	PQ4R10XJ122	1.2K	1
R96	PQ4R10XJ332	3.3K	1	R186	PQ4R10XJ471	470	1
R97	PQ4R10XJ332	3.3K	1	R187	PQ4R10XJ471	470	1
R98	ERDS1TJ122	1.2K	1	R189	ERDS1TJ330	33	1
R99	PQ4R10XJ222	2.2K	1	R190	PQ4R18XJ152	1.5K	1
R100	ERD25TJ331	330	1	R191	PQ4R18XJ473	47K	1
R101	PQ4R10XJ332	3.3K	1	R192	PQ4R10XJ564	560K	1
R102	PQ4R10XJ682	6.8K	1	R194	PQ4R10XJ331	330	1
R103	PQ4R10XJ472	4.7K	1	R197	PQ4R10XJ473	47K	1
R104	PQ4R10XJ103	10K	1	R198	PQ4R10XJ104	100K	1
R105	PQ4R10XJ101	100	1	R199	PQ4R10XJ331	330	1
R106	PQ4R10XJ222	2.2K	1	R201	PQ4R10XJ331	330	1
R107	PQ4R10XJ182	1.8K	1	R202	PQ4R10XJ331	330	1
R108	ER016CKF1201	1.2K	1	R203	PQ4R10XJ331	330	1
R109	PQ4R10XJ223	22K	1	R206	PQ4R10XJ223	22K	1
R110	PQ4R10XJ103	10K	1	R207	PQ4R10XJ102	1K	1
R111	PQ4R10XJ103	10K	1	R208	PQ4R10XJ334	330K	1
R112	ER016CKF1801	1.8K	1	R209	PQ4R10XJ222	2.2K	1
R113	PQ4R10XJ102	1K	1	R212	PQ4R10XJ103	10K	1
R114	PQ4R10XJ101	100	1	R213	PQ4R10XJ331	330	1
R115	PQ4R10XJ151	150	1	R214	PQ4R18XJ000	0	1
R116	PQ4R10XJ272	2.7K	1	R215	PQ4R10XJ471	470	1
R117	PQ4R10XJ272	2.7K	1	R216	PQLQR1ET	COIL	1
R118	ER016CKF1501	1.5K	1	R221	PQ4R10XJ564	560K	1
R119	PQ4R10XJ222	2.2K	1	R222	PQ4R10XJ272	2.7K	1
R120	ERDS1TJ222	2.2K	1	R223	PQ4R10XJ183	18K	1
R121	PQ4R10XJ102	1K	1	R225	PQ4R18XJ000	0	1
R122	ERDS1TJ222	2.2K	1	R236	PQ4R10XJ103	10K	1
R123	PQ4R10XJ103	10K	1	R237	PQ4R10XJ330	33	1
R124	PQ4R10XJ103	10K	1	R238	PQ4R10XJ330	33	1
R125	PQ4R10XJ681	680	1	R239	PQ4R10XJ471	470	1
R126	PQ4R10XJ103	10K	1	R240	PQ4R10XJ472	4.7K	1
R127	PQ4R10XJ103	10K	1	R241	PQ4R10XJ473	47K	1
R131	PQ4R10XJ473	47K	1	R242	PQ4R10XJ564	560K	1
R132	PQ4R10XJ473	47K	1	R500	PQ4R10XJ123	12K	1
R133	PQ4R10XJ473	47K	1	R501	PQ4R10XJ562	5.6K	1
R134	PQ4R10XJ473	47K	1	BA1	BR2032/1HF1	(BATTERY & CONNECTORS) LITHIUM BATTERY	1
R135	PQ4R10XJ563	56K	1	CN1	PQJP13A12Z	CONNECTOR, 13P	1
R136	PQ4R10XJ682	6.8K	1	CN2	PQJS23X59Z	CONNECTOR, 23P	1
R137	PQ4R10XJ563	56K	1	CN3	PQJP8G100Z	CONNECTOR, 8P	1
R138	PQ4R10XJ563	56K	1	CN4	PQJP4G91Z	CONNECTOR, 4P	1
R139	PQ4R10XJ682	6.8K	1	CN5	PQJP2D121Z	CONNECTOR, 2P	1
R140	PQ4R10XJ331	330	1	CN6	PQJP6D121Z	CONNECTOR, 6P	1
R141	PQ4R10XJ331	330	1	CN7	PQJP9G30Z	CONNECTOR, 9P	1
R142	PQ4R10XJ682	6.8K	1	CN8	PQJP7G90Z	CONNECTOR, 7P	1
R143	PQ4R10XJ563	56K	1	CN9	PQJP7G100Z	CONNECTOR, 7P	1
R144	PQ4R10XJ563	56K	1	CN10	PQJP2G100Z	CONNECTOR, 2P	1
R145	PQ4R10XJ682	6.8K	1	CN11	PQJS18R02Z	CONNECTOR, 18P	1
R151	PQ4R10XJ683	68K	1	CN501, 502	PQJS10A01Z	CONNECTOR, 10P	2
R154	PQ4R10XJ473	47K	1				
R157	PQ4R10XJ473	47K	1				
R158	PQ4R10XJ473	47K	1				
R159	PQ4R10XJ473	47K	1				
R160	PQ4R10XJ681	680	1				
R161	PQ4R10XJ121	120	1				
R162	PQ4R10XJ271	270	1				
R163	PQ4R10XJ181	180	1				

**KX-F7B**

Ref. No.	Part No.	Part Name & Description	Pcs		Ref. No.	Part No.	Part Name & Description	Pcs
<b>OPERATION BOARD PARTS</b>								
PCB2	PQWP2F76XTW	OPERATION BOARD ASS'Y (RTL)	1		Q102	PQVTBB1A4A	TRANSISTOR(SI)	1
LED1	PQVDGL1D11E	(DIODES)			Q103	2SD1994A	TRANSISTOR(SI)	1
LED2	PQVDGL1E11C	LED	1		Q105	2SB1218A	TRANSISTOR(SI)	1
LED3	LN376GCPX	LED	1		Q106, 107	2SD1819A	TRANSISTOR(SI)	S 2
LED4	LN876RCPX	LED	1		Q108	PQVTBB1A4A	TRANSISTOR(SI)	1
LED5	PQVDGL1D11E	LED	1		Q109	PQVTDTC114YU	TRANSISTOR(SI)	1
			1		Q110, 111	2SD1819A	TRANSISTOR(SI)	S 2
PC201, 203 , 301, 303	PQVIPS4506	(PHOTO ELECTRIC TRANSDUCERS) SENSOR,	S 4		Q201	2SD1994A	TRANSISTOR(SI)	1
SW1	EVQ22405K	(SWITCHES)			D1, 2	1SS131	(DIODES)	2
SW2	EVQ22405K	SWITCH,	1		D3	RLS71	DIODE(SI)	1
SW3	EVQ22405K	SWITCH,	1		D4	1SS131	DIODE(SI)	1
SW4	EVQ22405K	SWITCH,	1		D5, 10	RLS71	DIODE(SI)	2
SW5	EVQ22405K	SWITCH,	1		D11	MA4300	DIODE(SI)	1
SW6	PQSH1A43Z	SWITCH,	1		D12	MA4150	DIODE(SI)	1
SW7	PQSH1A43Z	SWITCH,	1		D14	PQVD0R5G4B42	DIODE(SI)	1
SW8	PQSH1A43Z	SWITCH,	1		D15	RLS71	DIODE(SI)	1
SW9	PQSH1A43Z	SWITCH,	1		D105, 106, 107	RLS71	DIODE(SI)	4
SW10	PQSH1A43Z	SWITCH,	1		, 110			
SW11	PQSH1A43Z	SWITCH,	1		D111	MA700A	DIODE(SI)	1
SW12	PQSH1A43Z	SWITCH,	1		D112	PQVDMTZ4R7	DIODE(SI)	1
SW13	PQSH1A43Z	SWITCH,	1		D113, 120, 121	RLS71	DIODE(SI)	3
SW14	PQSH1A43Z	SWITCH,	1		D124	1SS131	DIODE(SI)	1
SW15	EVQ22405K	SWITCH,	1		D126	PQVDMTZ5R6	DIODE(SI)	1
SW16	PQSH1A43Z	SWITCH,	1		D201	RLS71	DIODE(SI)	1
SW17	PQSH1A43Z	SWITCH,	1		D202	PQVDRLZ5R6	DIODE(SI)	1
SW18	PQSH1A43Z	SWITCH,	1		D203	RLS71	DIODE(SI)	1
SW19	EVQ22405K	SWITCH,	1		D204	PQVDAK04A	DIODE(SI)	1
CN1, 2	PQJS7R40Z	(CONNECTORS)			L1, 2	PQLE106	(COILS)	2
		CONNECTOR, 7P	2				COIL	
CN101	PQJS23X62Z	CONNECTOR, 23P	1		PC1	PQVIPC357C	(PHOTO ELECTRIC TRANSDUCERS) PHOTO COUPLER	1
CN102	PQJS12X62Z	CONNECTOR, 12P	1		PC101, 102, 103 , 105, 106, 107 , 108, 111, 112 , 113	PQVIPC357C	PHOTO COUPLER	10
CN103	PQJP14G105Z	CONNECTOR, 14P	1		RLY3	PQSL29Z	(RELAY)	1
CN104, 105	PQJP2G105Z	CONNECTOR, 2P	2				RELAY	
<b>TELEPHONE BOARD PARTS</b>								
PCB3	PQWP3F7BX	TELEPHONE BOARD PARTS (RTL)	1		SW1	PQSS2A27W	(SWITCHES)	1
			1		SW2	PQSS2A27W	SWITCH, TONE/PULSE	1
IC1	PQVIBA8205F	(ICs)			SW3	ESE14A211	SWITCH, VOLUME	1
IC2	PQVIMC34119M	IC	1				SWITCH, HOOK	1
IC3	PQVINJM4558M	IC	1		T1	PQLT2D2A	(TRANSFORMERS)	
			1		T2	PQLT8D2A	TRANSFORMER	1
IC101	PQVILC73721M	IC	1		T201	PQLT9Z7A	TRANSFORMER	1
IC102	PQVIBA6566F	IC	1		VR1	PQVAL204B24A	(VARIABLE RESISTOR)	
IC103	PQVISV7860SG	IC	1				VOLUME CONTROL, 20KΩ (B)	S 1
Q3	2SA1626	(TRANSISTORS)			X1	PQVBT3.58G8	(CERAMIC FILTER)	1
Q4	2SD662B	TRANSISTOR(SI)	1				CERAMIC FILTER	1
Q5	PQVTDTC143E	TRANSISTOR(SI)	1		C1	ECQE2105KF	(CAPACITORS)	
Q6	PQVTDTC143E	TRANSISTOR(SI)	1		C2	ECEA1HU220	1	1
Q11	2SD1819A	TRANSISTOR(SI)	S 1		C4	PQCUV1H682KB	22	1
Q12	PQVTDTC143E	TRANSISTOR(SI)	1		C5, 6	ECEA1HKS010	0.0068	1
Q13, 14	2SD1819A	TRANSISTOR(SI)	S 2		C7	PQCUV1H821JC	1	2
Q15	PQVTDTC143E	TRANSISTOR(SI)	1				820P	1
					C11	PQCUV1C224ZF	0.22	1
					C12	PQCUV1E104MD	0.1	1
					C13	PQCUV1H101JC	100P	1

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Value	Pcs
C14	PQCUV1E104MD	0.1	1	R6	PQ4R10XJ184	180K	1
C15	PQCUV1H272KB	0.0027	1	R7	PQ4R10XJ393	39K	1
C16	ECEA1CKS100	10	1	R8	PQ4R10XJ562	5.6K	1
C17, 18	ECEA1AU101	100	S 2	R9	PQ4R10XJ000	0	1
C20	ECEA1HKS010	1	1	R10	PQ4R10XJ104	100K	1
C21	PQCUV1H102J	0.001	1	R11	PQ4R10XJ105	1M	1
C22	ECEA1HKS22	0.22	1	R12	PQ4R10XJ472	4.7K	1
C23	PQCUV1E104MD	0.1	1	R14	PQ4R10XJ683	68K	1
C25	PQCUV1C224ZF	0.22	1	R15	PQ4R10XJ564	560K	1
C26	PQCUV1E104MD	0.1	1	R17	PQ4R10XJ683	68K	1
C27	PQCUV1E104MD	0.1	1	R18	PQ4R10XJ472	4.7K	1
C30	PQCUV1H332KB	0.0033	1	R20	PQ4R10XJ182	1.8K	1
C31	PQCUV1H103KB	0.01	1	R22	PQ4R10XJ222	2.2K	1
C102	ECEA1HKS4R7	0.47	1	R23	PQ4R10XJ102	1K	1
C103	PQCUV1C823KB	0.082	1	R24	PQ4R10XJ103	10K	1
C104	PQCUV1E153MD	0.015	1	R25	PQ4R10XJ821	820	1
C105	PQCUV1H682KB	0.0068	1	R26	PQ4R10XJ821	820	1
C106	PQCUV1H471JC	470P	1	R27	PQ4R10XJ562	5.6K	1
C107	PQCUV1E333MD	0.033	1	R28	PQ4R10XJ223	22K	1
C108	PQCUV1E333MD	0.033	1	R30	PQ4R10XJ473	47K	1
C109	PQCUV1H471JC	470P	1	R31	PQ4R10XJ473	47K	1
C110	ECEA1CKS220	22	1	R35	PQ4R10XJ474	470K	1
C111	ECEA1CKS100	10	1	R36	PQ4R10XJ470	47	1
C112, 113	ECEA1HKS4R7	4.7	S 2	R37	PQ4R10XJ334	330K	1
C114	PQCUV1H103KB	0.01	1	R40	PQ4R10XJ103	10K	1
C121, 122	ECEA1HKS4R7	4.7	S 2	R41	PQ4R10XJ000	0	1
C123	ECEA1AU221	220	S 1	R42	PQ4R10XJ103	10K	1
C126	ECEA1HKS010	1	1	R43	PQ4R10XJ103	10K	1
C131	PQCUV1H103KB	0.01	1	R45	PQ4R10XJ103	10K	1
C132	PQCUV1E104MD	0.1	1	R48	PQ4R10XJ101	100	1
C133	PQCUV1E104MD	0.1	1	R49	PQ4R10XJ104	100K	1
C135	PQCUV1E104MD	0.1	1	R50	PQ4R10XJ000	0	1
C136	PQCUV1E104MD	0.1	1	R51	PQ4R10XJ102	1K	1
C139	PQCUV1H103KB	0.01	1	R52	PQ4R10XJ000	0	1
C140	PQCUV1H101JC	100P	1	R53	PQ4R10XJ473	47K	1
C141	PQCUV1H103KB	0.01	1	R102	PQ4R10XJ222	2.2K	1
C143	ECEA1AU221	220	S 1	R103	PQ4R10XJ102	1K	1
C145	ECEA1HKS4R7	4.7	S 1	R104	PQ4R10XJ470	47	1
C147	PQCUV1H183MD	0.018	S 1	R105	PQ4R10XJ471	470	1
C150	PQCUV1H103KB	0.01	1	R106	PQ4R10XJ103	10K	1
C151	PQCUV1H103KB	0.01	1	R109, 110	PQ4R10XJ153	15K	2
C152	PQCUV1H471JC	470P	1	R111	PQ4R10XJ204	200K	1
C155-162	PQCUV1H101JC	100P	8	R112	PQ4R10XJ473	47K	1
C163	PQCUV1C224ZF	0.22	1	R113	PQ4R10XJ222	2.2K	1
C165	PQCUV1E104MD	0.1	1	R114	ERDS1TJ560	56	1
C166	PQCUV1H102J	0.001	1	R115	PQ4R10XJ103	10K	1
C167	PQCUV1H682KB	0.0068	1	R118	PQ4R10XJ222	2.2K	1
C201	ECEA1AU101	100	S 1	R122	PQ4R10XJ181	180	1
C202, 203, 204	PQCUV1H103KB	0.01	3	R123	PQ4R10XJ000	0	1
C205	ECEA1HKS4R7	4.7	S 1	R125	PQ4R10XJ104	100K	1
C206, 209	PQCUV1H105JC	1	2	R126	PQ4R10XJ000	0	1
C210	PQCUV1E104MD	0.1	1	R127, 128	PQ4R10XJ155	1.5M	2
C210A	ECST1AX106	10	1	R129, 130	PQ4R10XJ104	100K	2
C350	PQCUV1E104MD	0.1	1	R131	PQ4R10XJ681	680	1
J101	PQ4R10XJ000	0	2	R132	PQ4R10XJ473	47K	1
J103	PQ4R18XJ000	0	1	R133	PQ4R10XJ222	2.2K	1
R1	ERDS1TJ622	6.2K	1	R135	PQ4R10XJ104	100K	1
R2	PQ4R10XJ102	1K	1	R136	PQ4R10XJ472	4.7K	1
R3	PQ4R10XJ000	0	1	R137	PQ4R10XJ000	0	1
R4	PQ4R10XJ123	12K	1	R139	PQ4R10XJ224	220K	1
R5	PQ4R10XJ334	330K	1	R140	PQ4R10XJ472	4.7K	1
				R141	PQ4R10XJ103	10K	1
				R142	PQ4R10XJ472	4.7K	1
				R143, 144, 145	PQ4R10XJ104	100K	3
				R146, 147	PQ4R10XJ682	6.8K	2
				R148, 152	PQ4R10XJ000	0	2

Ref. No.	Part No.	Part Name & Description	Pcs
R153	PQ4R10XJ472	4.7K	1
R154	PQ4R10XJ000	0	1
R155	PQ4R10XJ155	1.5M	1
R156	PQ4R10XJ104	100K	1
R157	PQ4R10XJ564	560K	1
R158	PQ4R10XJ101	100	1
R159	PQ4R10XJ472	4.7K	1
R161	PQ4R10XJ682	6.8K	1
R163	PQ4R10XJ682	6.8K	1
R164	PQ4R10XJ682	6.8K	1
R166	PQ4R10XJ104	100K	1
R167	PQ4R10XJ104	100K	1
R168	PQ4R10XJ224	220K	1
R169	PQ4R10XJ224	220K	1
R170	PQ4R10XJ152	1.5K	1
R172	PQ4R10XJ392	3.9K	1
R176	PQ4R10XJ102	1K	1
R177	PQ4R10XJ102	1K	1
R178	PQ4R10XJ104	100K	1
R179	PQ4R10XJ334	330K	1
R180	PQ4R10XJ394	390K	1
R181	PQ4R10XJ103	10K	1
R182	PQ4R10XJ224	220K	1
R183	PQ4R10XJ104	100K	1
R185	PQ4R10XJ224	220K	1
R187	PQ4R10XJ224	220K	1
R188	PQ4R10XJ104	100K	1
R189, 190	PQ4R10XJ332	3.3K	2
R191	PQ4R10XJ104	100K	1
R192	PQ4R10XJ333	33K	1
R193	PQ4R10XJ682	6.8K	1
R194	PQ4R10XJ222	2.2K	1
R195	PQ4R10XJ562	5.6K	1
R196	PQ4R10XJ102	1K	1
R197	PQ4R10XJ102	1K	1
R201	PQ4R10XJ472	4.7K	1
R202	PQ4R10XJ223	22K	1
R203	PQ4R10XJ471	470	1
R205	PQ4R10XJ102	1K	1
R300	PQ4R10XJ000	0	1
R310	PQ4R10XJ104	100K	1
R311	PQ4R10XJ000	0	1
R315	PQ4R10XJ223	22K	1
R316	PQ4R10XJ103	10K	1
R317	PQ4R10XJ473	47K	1
R318	PQ4R10XJ124	120K	1
H/S JACK	PQJJ1TB18Z	(JACK, CONNECTORS & OTHER) HANDSET JACK	1
CN1	PQJS9X54Z	CONNECTOR, 9P	1
CN2	PQJS13X54Z	CONNECTOR, 13P	1
CN3	PQJP2D70Y	CONNECTOR, 2P	1
CN4	PQJP06A14Z	CONNECTOR, 6P	1
CN101	PQJS9X54Z	CONNECTOR, 9P	1
CN102	PQJS13X54Z	CONNECTOR, 13P	1
CN103	PQJS18R02Z	CONNECTOR, 18P	1
CN104	PQJS08R02Z	CONNECTOR, 8P	1
E1	PQHX10069Z	SHEET	1

Ref. No.	Part No.	Part Name & Description	Pcs
<b>IMAGE BOARD PARTS</b>			
PCB4	PQWP8PW1TNL	IMAGE BOARD ASS'Y (RTL)	1
IC900	PQVICX5864MC	(ICs)	
IC901	PQVI09JN003A	IC	S 1
IC902	PQVISN7H244S	IC	S 1
IC903	PQVISN7H373S	IC	S 1
IC904	PQVILC89066M	IC	1
IC905	PQVITC7H404F	IC	1
IC908	PQVITC7H00F	IC	S 1
IC909	PQVIPD7HU04S	IC	1
RA901	EXBF7E473JYV	(COMPONENTS COMBINATIONS) RESISTOR ARRAY	1
RA902	EXBF9E473JYV	RESISTOR ARRAY	1
C901	ECEA1VKS4R7	(CAPACITORS)	
C903	PQCUV1H330JC	4.7	1
C904	PQCUV1H330JC	33P	1
C906-912	PQCUV1E104MD	33P	1
C914	PQCUV1H221JC	0.1	7
C915	PQCUV1E104MD	220P	1
C916	PQCUV1E104MD	0.1	1
R913	PQ4R10XJ102	(RESISTOR)	
		1K	1
CN901, 902	PQJS10R03Z	(CONNECTORS)	
CN903	PQJS12X54Z	CONNECTOR, 10P	2
CN904	PQJS08R03Z	CONNECTOR, 12P	1
		CONNECTOR, 8P	1
<b>POWER SUPPLY BOARD PARTS</b>			
PCB5	PQLP051Z	POWER SUPPLY BOARD ASS'Y (RTL)	1
IC401	PQVIM51977P	(ICs)	
IC402	PQVIUPC1093J	IC	S 1
IC403	PQVINJ2360D	IC	S 1
IC404, 405	PQVITA7812AP	IC	S 2
Q401	2SK1643	(TRANSISTORS)	
Q404	PQVTDTG143XS	TRANSISTOR(SI)	▲ 1
Q405	2SJ176	TRANSISTOR(SI)	1
Q406	2SD1266	TRANSISTOR(SI)	1
D401	PQVDD3SBA60M	(DIODES)	
D402	PQVD1JU41	DIODE(SI)	▲ 1
D403	PQVD1GU42	DIODE(SI)	1
D404	PQVD1GU42	DIODE(SI)	1
D405	PQVDD10LC20U	DIODE(SI)	1
D407	PQVD0R8DU41	DIODE(SI)	1
D408	PQVD1GU42	DIODE(SI)	1
D411	PQVDAK04	DIODE(SI)	1
ZD401	MA4270	DIODE(SI)	1
ZD402	MA4062	DIODE(SI)	1
F401	XBA2C31TR0	(FUSE)	
		FUSE	▲ 1

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
L401	ELF18D290	(COILS) COIL	▲ 1	R420	ER016CKF1131	1.13K	1
L403	PQLE119	CHOKE COIL	1	R421	ERG1SJ561	560	1
L404-407	ELEXT5R6KA	COIL	4	R422	ERD2STJ472	4.7K	1
PC401, 402	PQVIPC817K	(PHOTO ELECTRIC TRANSDUCERS) PHOTO COUPLER	▲ S 2	R423	ERD2STJ472	4.7K	1
SA401	PQVDSAE310F1	(VARISTORS)		R424	ER016CKF1201	1.2K	1
Z401	ERZC10DK471	VARISTOR (SURGE ABSORBER)	▲ 1	R425	ER016CKF3651	3.65K	1
		VARISTOR	▲ 1	R426	ERD2STJ101	100	1
TH401	PQRTD5FFL8R0	(THERMISTORS)		R427	ERG2SJ122	1.2K	1
TH402	PQRTE0FFF103	THERMISTOR	1	R428	ERX1SJR22	0.22	1
T401	ETS28K804V	(TRANSFORMER)		R440	ERDS2TJ121	120	1
		TRANSFORMER	▲ 1	J401, 402	PQJJ1TA14Y	(JACK & CONNECTORS) TEL. JACK	2
C401	ECQU2A104MN	(CAPACITORS)		CN401	PQJP2D98Z	CONNECTOR, 2P	1
C402	ECKZRS222ME	0.1	▲ 1	CN402	PQJP10G43Z	CONNECTOR, 10P	1
C403	ECKZRS222ME	0.0022	▲ 1	CN403	PQJP13A12Z	CONNECTOR, 13P	1
C404	ECQU2A104MN	0.1	▲ 1	CN404	PQJP4G91Z	CONNECTOR, 4P	1
C405, 406	ECKDKD332ME	0.0033	▲ 2	CN405	PQJP06A13Z	CONNECTOR, 6P	1
C407	ECQE6473B	0.047	1	LCD BOARD PARTS			
C408	ECE52GB101DN	100	▲ 1	PCB6	PQLP036Y	LCD BOARD ASS'Y (RTL)	1
C409	ECQV1H104JZ	0.1	1	IC1	PQVIHD44780	(IC)	1
C410	ECQV1H103JZ	0.01	1	C1	PQCUV1E104MD	0.1	1
C411	ECQB1H391KF	390P	1	C2	ECUV1H104MD	0.1	1
C412	ECQV1H154JZ	0.15	1	R1	PQ4R18XF9092	(RESISTORS)	1
C413	ECQV1H104JZ	0.1	1	R2-6	PQ4R18XF8201	90.9K	5
C414	ECQV1H104JZ	0.1	1	E10	PQADCG794TSA	8.2K	
C415	ECEA1VGE220	22	1	E11	PQJE134Z	(OTHERS)	1
C416	ECEA1VGE101	100	1	E12	PQMD91Z	LIQUID CRYSTAL DISPLAY	2
C417	ECKDRS471MB	470P	1			CONNECTOR	
C418	ECEA1VGE471	470	1			FRAME	1
C419	ECQV1H104JZ	0.1	1				
C420	ECEA1VGE471	470	1				
C421	ECQV1H104JZ	0.1	1				
C422	ECEA1VGE471	470	1				
C423	ECCD1H101JC	100P	1				
C424	ECQV1H104JZ	0.1	1				
C425	ECEA1AGE102	1000	1				
C426	ECQV1H104JZ	0.1	1				
C427	ECKD3A221KBN	220P	1				
C428	ECEA1HGE101	100	1				
C429	ECEA1EGE101	100	1				
C430	ECKD3A221KBN	220P	1				
C431	ECEA1VGE101	100	1				
C432	ECEA1EGE470	47	1				
C434	ECQV1H104JZ	0.1	1				
C435	ECQV1H104JZ	0.1	1				
		(RESISTORS)					
R401	ERDS1TJ394	390K	1				
R402	ERG3SJ184U	180K	1				
R403	ERG2SJ683	68K	1				
R404	ERG2SJ683	68K	1				
R405	ERDS1TJ150	15	1				
R406	ERDS2TJ391	390	1				
R407	ERDS2TJ123	12K	1				
R408	ERDS2TJ103	10K	1				
R409	ER016CKF2212	22.1K	1				
R410	ERDS2TJ103	10K	1				
R411	ER016CKF1472	14.7K	1				
R412	ERDS1TJ181	180	1				
R413, 414	ERDS2TJ101	100	2				
R415	ERDS2TJ183	18K	1				
R416	ERX3SJR22U	0.22	1				
R417	ERX3SJ5R6	5.6	1				
R418	ERG2SJ221	220	1				
R419	ER016CKF1002	10K	1				

## KX-F7B

### ■ TELEPHONE CIRCUIT (Change of original pages 71 and 72)

R122	270Ω	→	R122	180Ω
R155	820 kΩ		R155	1.5 MΩ
R158	270Ω		R158	100Ω

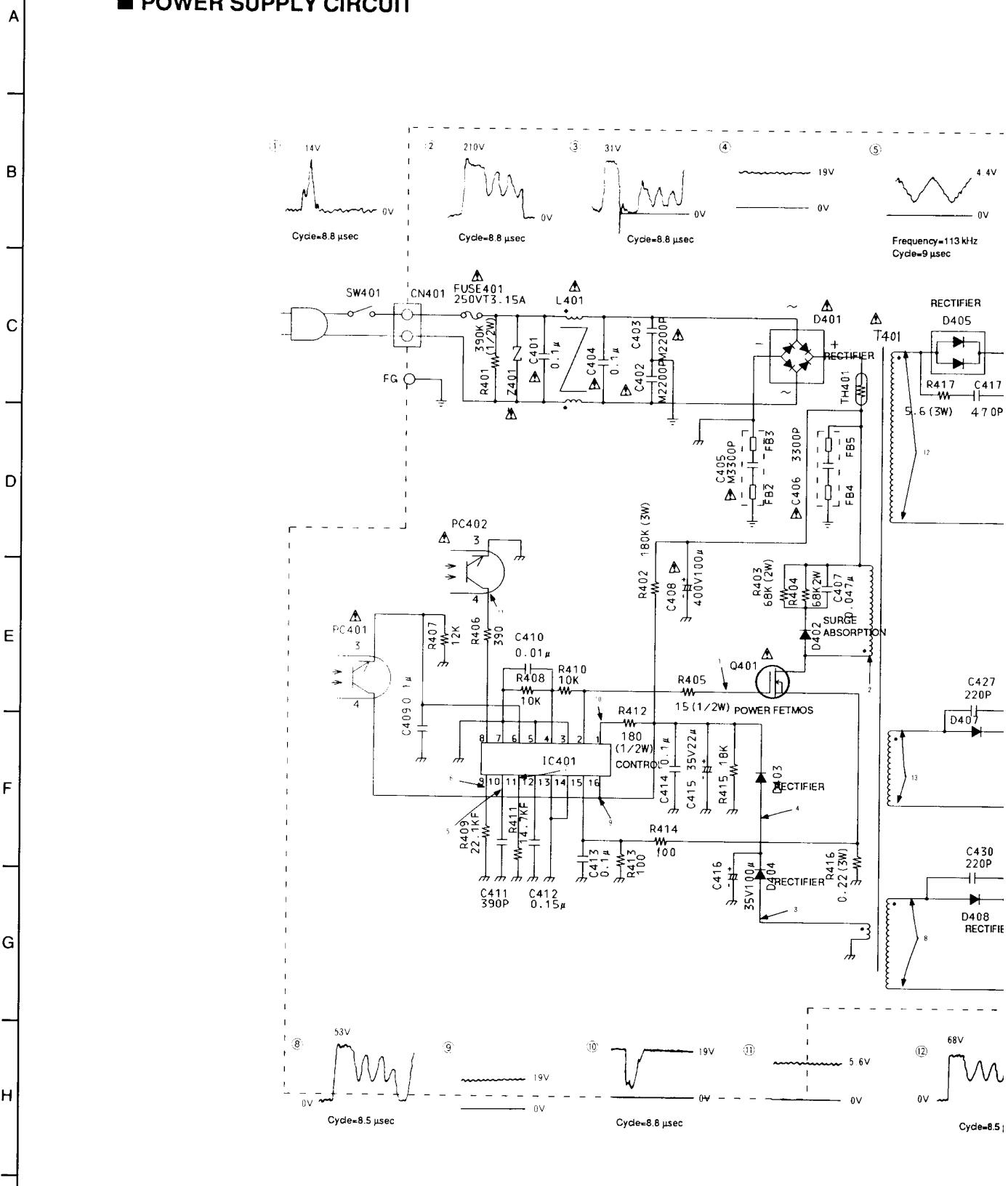
(Model KX-F76)

(Model KX-F7B)

## SCHEMATIC DIAGRAM

1 2 3 4 5 6

## ■ POWER SUPPLY CIRCUIT



## GRAM...Change of original pages 67 and 68

7

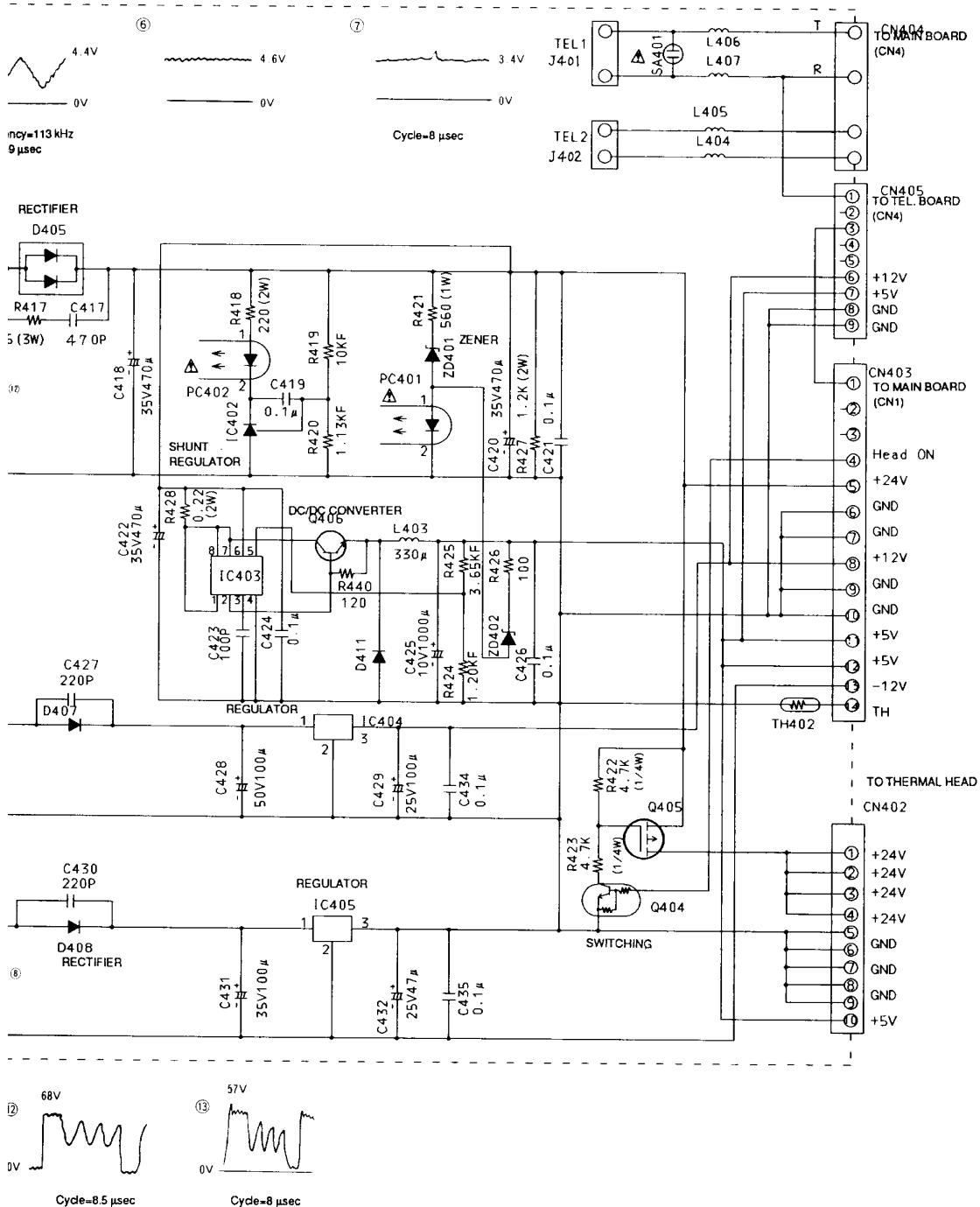
8

9

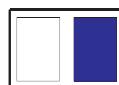
10

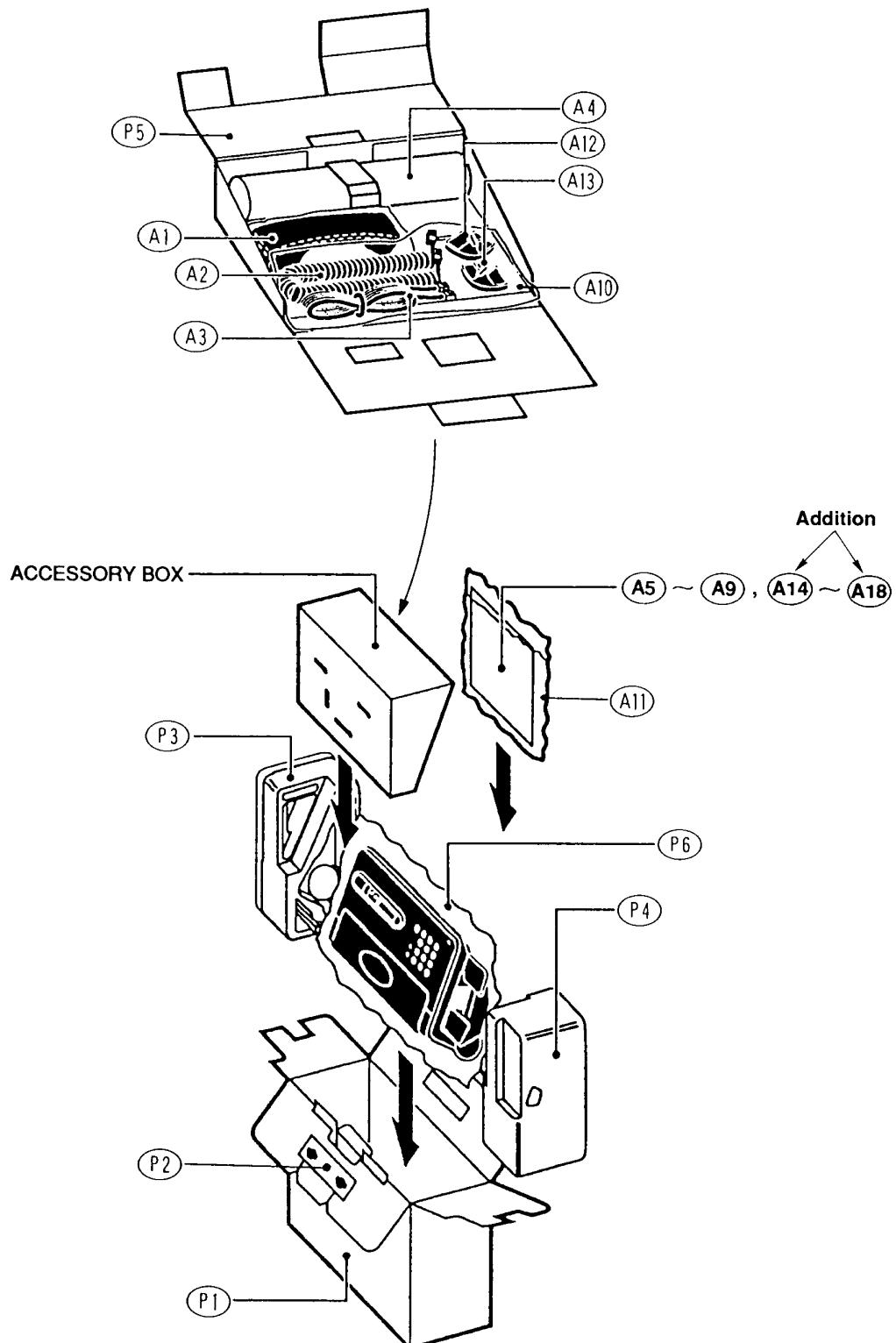
11

12



(Model KX-F7B)



**■ ACCESSORIES AND PACKING MATERIALS (Change of original page 86)**

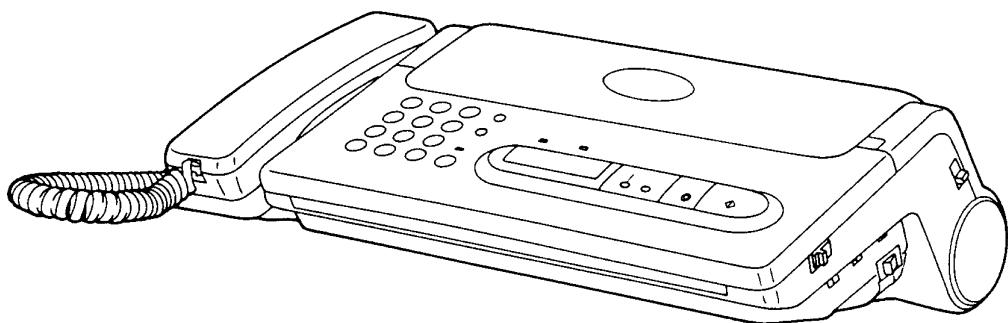
# Service Manual

## and Technical Guide

PERSONAL FACSIMILE

# KX-F76

(for Taiwan)



SPECIFICATIONS\ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ  
MAINTENANCE ITEM\ТОЧКИ СЕРВИСНОГО ОБСЛУЖИВАНИЯ  
TROUBLESHOOTING GUIDE\НЕИСПРАВНОСТИ И МЕТОДЫ ИХ УСТРАНЕНИЯ  
DISASSEMBLY INSTRUCTIONS\МЕТОДИКА РАЗБОРКИ  
BLOCK DIAGRAM\БЛОК-СХЕМА  
OVERALL CIRCUIT DIAGRAM\СХЕМА СОЕДИНЕНИЯ ПЛАТ И УЗЛОВ  
SCHEMATIC DIAGRAMS\ПРИНЦИПИАЛЬНЫЕ СХЕМЫ  
CABINET, MECHANICAL AND ELECTRICAL PARTS LOCATION\РАСПОЛОЖЕНИЕ  
ЧАСТЕЙ КОРПУСА, МЕХАНИЧЕСКИХ И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ  
ACCESSORIES AND PACKING MATERIALS\ПРИНАДЛЕЖНОСТИ И УПАКО-  
ВОЧНЫЕ МАТЕРИАЛЫ  
REPLACEMENT PARTS LIST\СПИСОК ЗАПАСНЫХ ЧАСТЕЙ

Panasonic

## SPECIFICATIONS

### 1. TRANSMISSION SECTION

Item		Description
1	Reading	CCD Image Sensor
2	Width of reading	252 mm (B4), 208 mm (A4)
3	Main scanning density	8 pels/mm
4	Side scanning density	3.85, 7.7, 15.4 line/mm
5	Synchronous form	Transmission Synchronism

### 2. RECEPTION SECTION

Item		Description
1	Reading	Thermal Recording
2	Size of recording paper	Standard 257×30 m roll paper (B4) 210×30 m roll paper (A4)
3	Width of recording	252 mm (B4), 208 mm (A4)
4	Main scanning density	8 pels/mm
5	Side scanning density	3.85, 7.7, 15.4 line/mm
6	Synchronous form	Transmission Synchronism

### 3. MODEM SECTION

Items		Description				
1	Transmission mode	V. 29		V. 27 ter		V. 21
2	Modulating method	16 Pt. QAM	8 Pt. QAM	8 Pt. PHM	4 Pt. PHM	FSK
3	Transmission speed (bps)	9600	7200	4800	2400	300
4	Modulating speed (Band)	2400	2400	1600	1200	300
5	Carrier frequency	1700		1800		$f(A)=1850$ $f(Z)=1650$
6	Detection method	Synchronizing detection		Synchronizing detection		FS
7	Tonal signal	2100 Hz (CED), 1100 Hz (CNG)				

#### 4. POWER SUPPLY SECTION

Items		Description										
1	Input power supply	AC 110 V±10% 60 Hz										
2	Insulation resistance	More than 10 MΩ between input power supply and earth										
3	Power consumption	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>Standby</td> <td>8 W</td> </tr> <tr> <td>Transmission</td> <td>18 W</td> </tr> <tr> <td>Reception</td> <td>30 W</td> </tr> <tr> <td>Copy</td> <td>35 W</td> </tr> <tr> <td colspan="2" style="text-align: right;">MAX 150 W</td></tr> </table>	Standby	8 W	Transmission	18 W	Reception	30 W	Copy	35 W	MAX 150 W	
Standby	8 W											
Transmission	18 W											
Reception	30 W											
Copy	35 W											
MAX 150 W												
4	Output power supply	+5 V, +12 V, -12 V, +24 V										

#### 5. ENVIRONMENT

Items		Description
1	Ambient air temperature	from 5°C to 35°C
2	Relative temperature	from 45% to 85%

#### 6. SIZE AND WEIGHT

Items		Description
1	Size	W: 391 mm, D: 233 mm, H: 115 mm
2	Weight	about 3.2 kg (Unit)

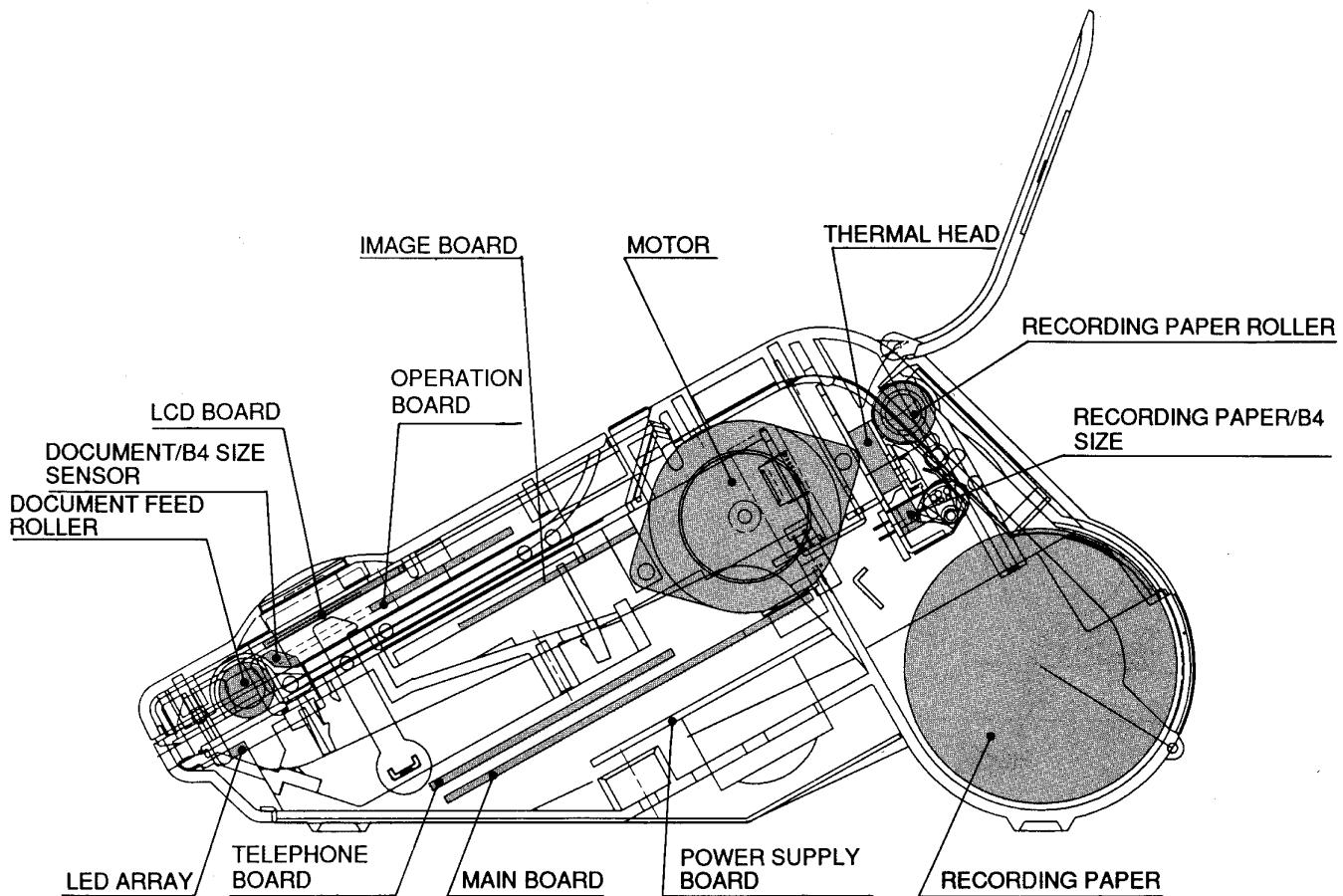
## MAINTENANCE ITEM

### 1. OUTLINE

MAINTENANCE AND REPAIRS ARE PERFORMED USING THE FOLLOWING STEPS.

- 1) **Periodic maintenance**  
Inspect the equipment periodically and if necessary, clean any contaminated parts.
- 2) **Check for breakdowns**  
Look for signs of trouble and consider how the problems arose.  
If the equipment can still be used, perform a copying, self testing or communications testing.
- 3) **Check equipment**  
Perform a copying, self testing and communications testing to determine if the problem originates from the transmitter, the receiver or the telephone line.
- 4) **Determine causes**  
Determine the causes of equipment trouble by troubleshooting.
- 5) **Equipment repairs**  
Repair or replace the defective parts and take appropriate measures at this stage to ensure that the problem does not recur.
- 6) **Confirm normal operation of the equipment**  
After completing the repairs, conduct copying, self testing and communications testing to confirm that the equipment operates normally.
- 7) **Record keeping**  
Make a record of the measures taken to rectify the problem for future reference.

### 2. MAINTENANCE CHECK ITEM



NO.	OPERATION	CHECK ITEM	REMARKS
1	Document Path	Remove any foreign matter such as paper.	—
2	Rollers	If the roller is dirty, clean it with a damp cloth then dry thoroughly.	See pages 22, 27.
3	Thermal Head	If the thermal head is dirty, clean the printing surface with a cloth moistened with denatured alcohol (alcohol without water), then dry thoroughly.	See page 27.
4	LED Array	If the LED Array is dirty, clean the glass with dry soft cloth.	See page 27.
5	Sensor & Switch	Recording Paper Sensor (PC301, 302), Document Sensor (PC201, 203), Confirm operation of sensor.	See pages 12–15.
6	Abnormal, wear and tear or looseness of parts	Exchange the part. Check the tightness of screws on each parts.	—

**Note:**

Print out the RAM data (user setting and service mode setting) in case an unexpected accident occurs during servicing.  
After servicing, print out the data again to confirm it.

## TROUBLESHOOTING GUIDE

### 1. SERVICE FUNCTION

#### 1-1. OPERATION

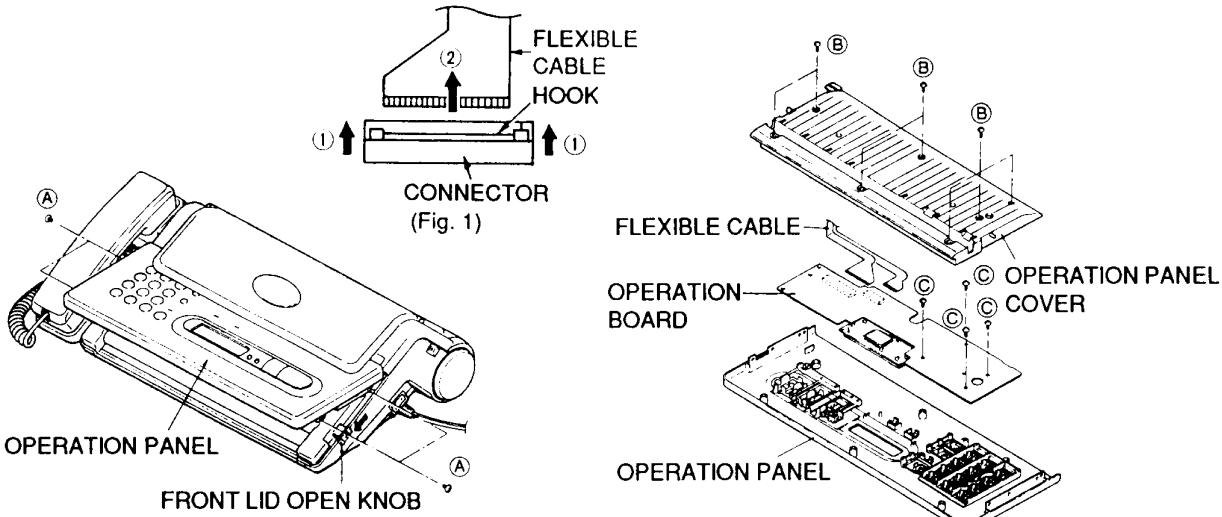
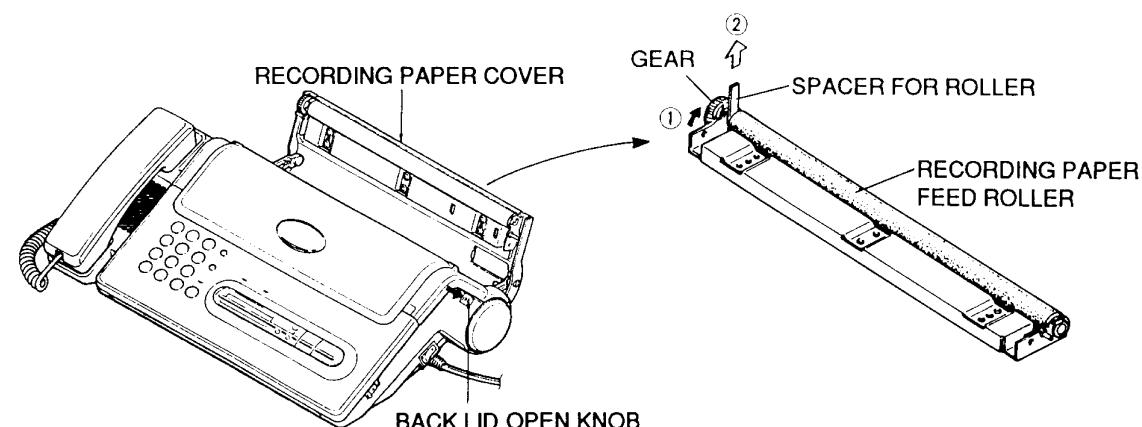
1. Set the FUNCTION Switch to ON.
2. Press The AUTO/ABSENCE and START/COPY button.
3. Select the Code No. (Press the RESOLUTION and AUTO/ABSENCE button.)
4. Press the START/COPY button.
5. Change the value. (Press the AUTO/ABSENCE button.)
6. Press the START/COPY button.
7. Set the FUNCTION Switch to OFF.

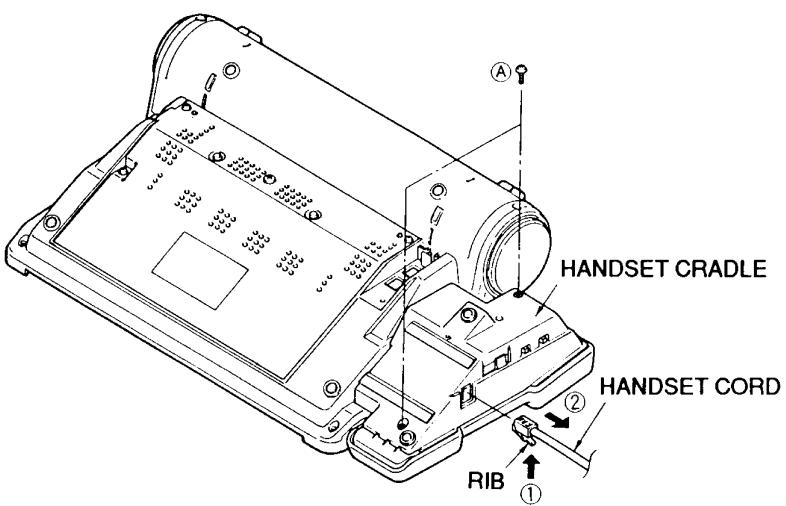
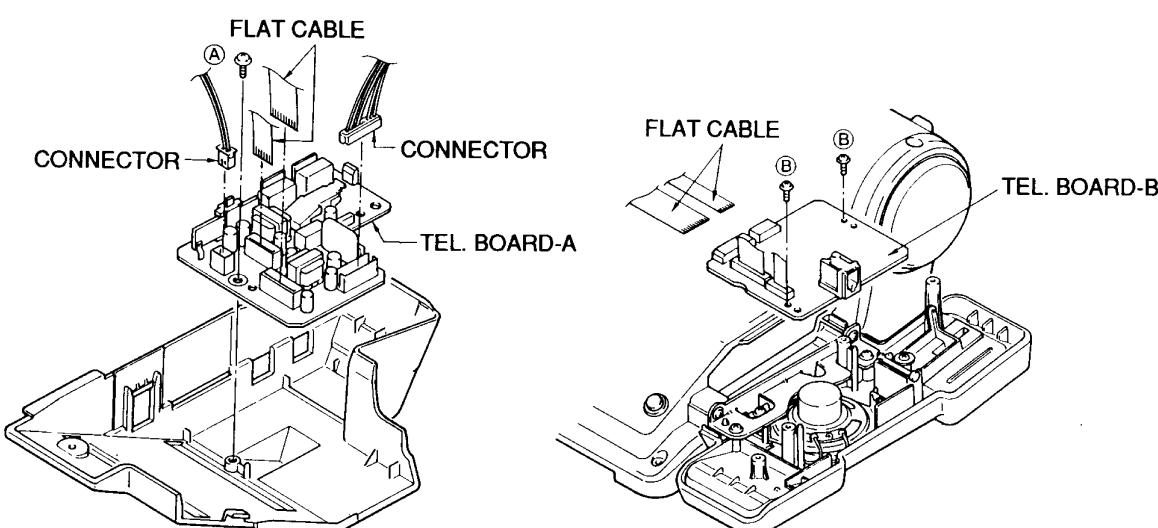
#### 1-2. SERVICE FUNCTION TABLE

CODE	FUNCTION	SELECTABLE VALUE (DEFAULT)	VALUE
500	SERVICE LIST	<b>YES</b>	<b>YES/OFF</b>
520	CED	2100Hz	2100 Hz/1100 Hz
521	INTL MODE	ON	ON/OFF
523	RCV EQ.	1.8Km	0.0/1.8/3.6/7.2
524	XMT EQ.	1.8Km	0.0/1.8/3.6/7.2
548	TSI SEND	ON	ON/CSI/OFF
549	CSI SEND	ON	ON/OFF
550	FACTORY SET	NO	<b>YES/NO</b>
551	ROM	F211A 38A3	
554	MODEM TEST	OFF	ON/OFF
555	SCAN CHECKTEST	OFF	ON/OFF
556	MOTOR TEST	OFF	ON/OFF
557	LED TEST	OFF	ON/OFF
558	LCD TEST	OFF	ON/OFF
559	DETECT JAM	ON	ON/OFF
563	CCD POSITION	-2mm	-4->3
575	OFFHOOK ALARM	ON	ON/OFF
586	W.L.SKIP1	ON	ON/OFF
587	W.L.SKIP2	ON	ON/OFF
588	SHORT PRTCL	OFF	ON/OFF
592	CNG SIGNAL	ON	ON/OFF
593	CED INTVAL	75ms	75/500/1000
594	DIS IGNORE	ON	OFF/ON
595	ERROR LINES	96	32/64/96/128/160/192/224/255
596	XMT LEVEL	-10dBm	-15->0
597	XMT SPEED	AUTO	AUTO/9600/7200/4800/2400
705	ID PRINT	ON	ON/OFF
717	XMT START	9600bps	9600/4800
718	RCV START	9600bps	9600/4800
757	DTMF TIME	25ms	15/25/50/100
759	OGM TIME	10s	1->99
761	FAX DET. TIM	6.0s	3.8/4.5/6.0/9.0
770	ORIG. MODE	ON	ON/OFF
771	T1 TIMER	38s	38/48

CODE	FUNCTION	SELECTABLE VALUE (DEFAULT)	VALUE
772	PREAMBLE	1000ms	900/1000/1100
773	DIS-DCS	460ms	100/460/1000
774	LIGHT ORIG.	OFF	ON/OFF
780	REMOTE CODE	*9	00->**/of
783	ICM TIME	000s	000->999
785	BELL TEST	OFF	ON/OFF
786	RING BCKTONE	OFF	ON/OFF
787	COMM. TEST	OFF	ON/OFF
788	SHADING	OFF	ON/OFF

## DISASSEMBLY INSTRUCTIONS

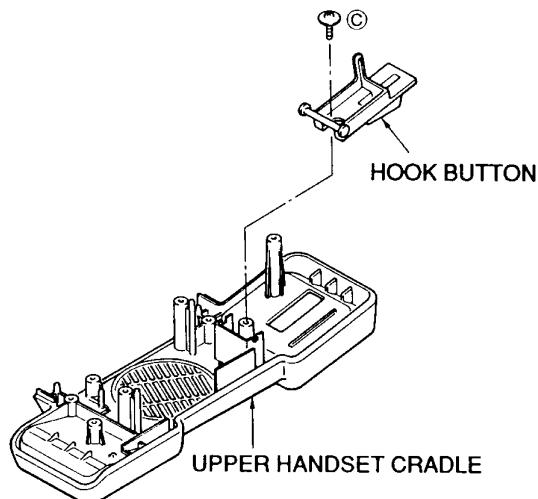
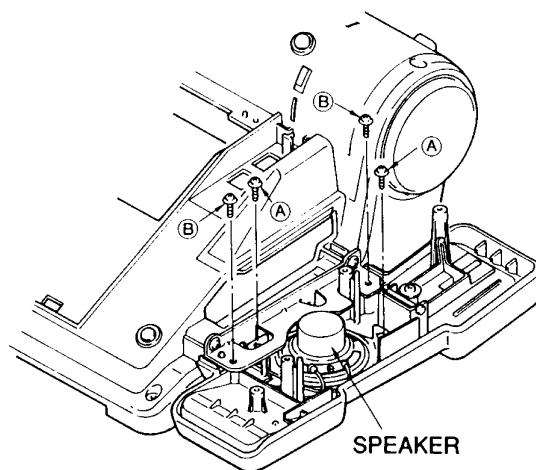
Ref. No. 1	HOW TO REMOVE THE OPERATION PANEL AND OPERATION BOARD			
Procedure 1		<p>1) Push the front lid open knob.      2) Remove the four screws (Ⓐ).      3) Remove the seven screws (Ⓑ).      4) Remove the operation panel cover.</p> <p>5) Remove the four screws (Ⓒ).      6) Remove the operation panel and operation board.      7) Remove the hook of connector then remove the flexible cable. (See Fig. 1.)</p>		
				
Ref. No. 2	HOW TO REMOVE THE RECORDING PAPER FEED ROLLER			
Procedure 2	<p>1) Push the back lid open knob.      2) Remove the recording paper feed roller.</p>			
				
<p><b>Cleaning:</b>      Clean the roller with a cloth soaked in alcohol.</p>				

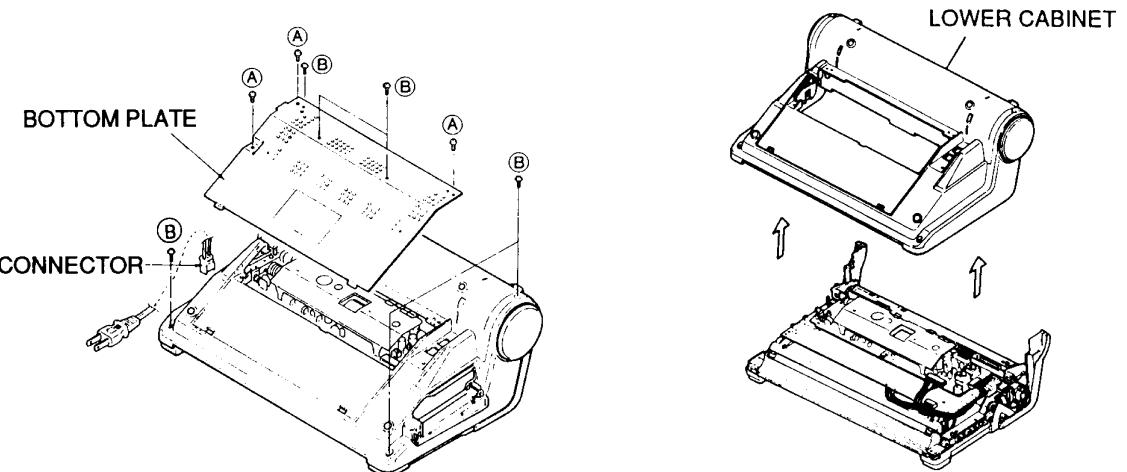
Ref No. 3	<b>HOW TO REMOVE THE LOWER HANDSET CRADLE</b>
Procedure 3	<p>1) Remove the handset cord.      2) Remove the two screws (Ⓐ).      3) Remove the lower handset cradle.</p>
	
Ref No. 4	<b>HOW TO REMOVE THE TELEPHONE BOARD</b>
Procedure 3→4	<p>1) Remove the two connectors.      2) Remove the two flat cables.      3) Remove the one screw (Ⓐ).      4) Remove the telephone board-A.      5) Remove the two screws (Ⓑ).      6) Remove the two flat cables.      7) Remove the telephone board-B.</p>
	

Ref. No. 5

**HOW TO REMOVE THE SPEAKER AND UPPER HANDSET CRADLE**Procedure  
3→4→5

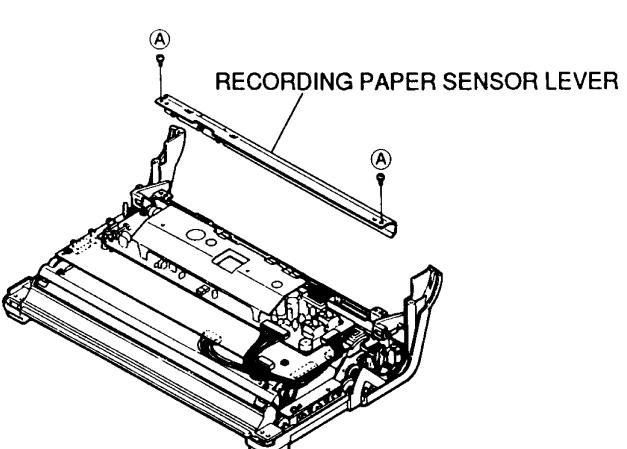
- 1) Remove the two screws (Ⓐ).
- 2) Replace the speaker.
- 3) Remove the two screws (Ⓑ).
- 4) Remove the one screw (Ⓒ), and remove the hook button.
- 5) Replace the upper handset cradle.



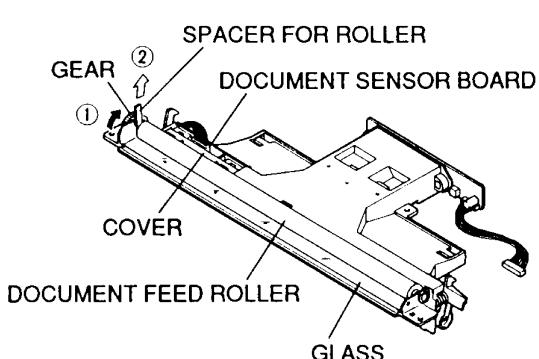
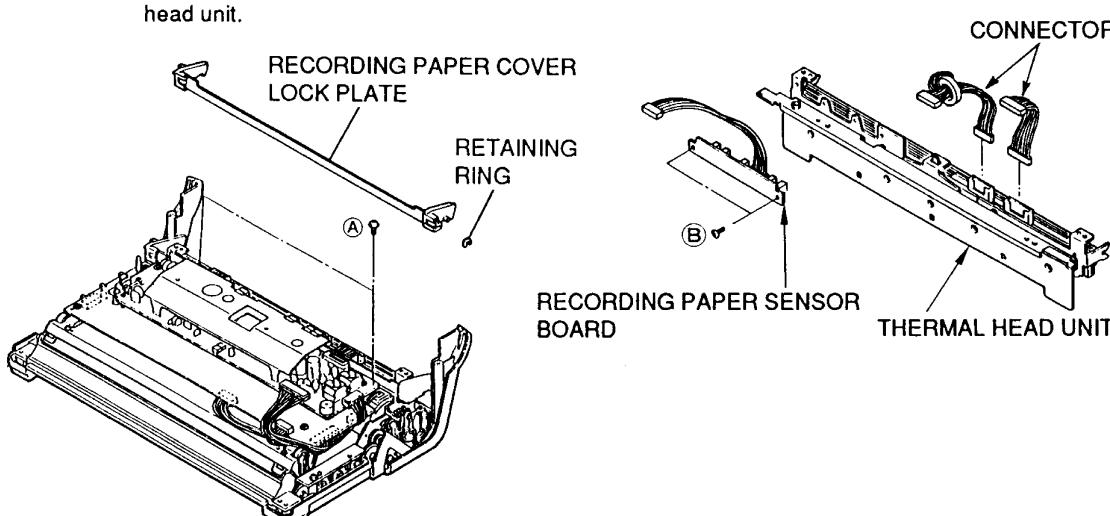
Ref. No. 6	<b>HOW TO REMOVE THE LOWER CABINET</b>
Procedure 3→4→5→6	<p>1) Open the recording paper cover. (See Ref. No. 2.)</p> <p>2) Remove the three screws (Ⓐ).</p> <p>3) Remove the bottom plate.</p> <p>4) Remove the connector.</p> <p>5) Remove the six screws (Ⓑ).</p> <p>6) Remove the lower cabinet.</p>
	

Ref. No. 7	<b>HOW TO REMOVE THE RECORDING PAPER SENSOR LEVER</b>
Procedure 3→4→5→6→7	<p>1) Remove the two screws (Ⓐ).</p> <p>2) Replace the recording paper sensor lever.</p>

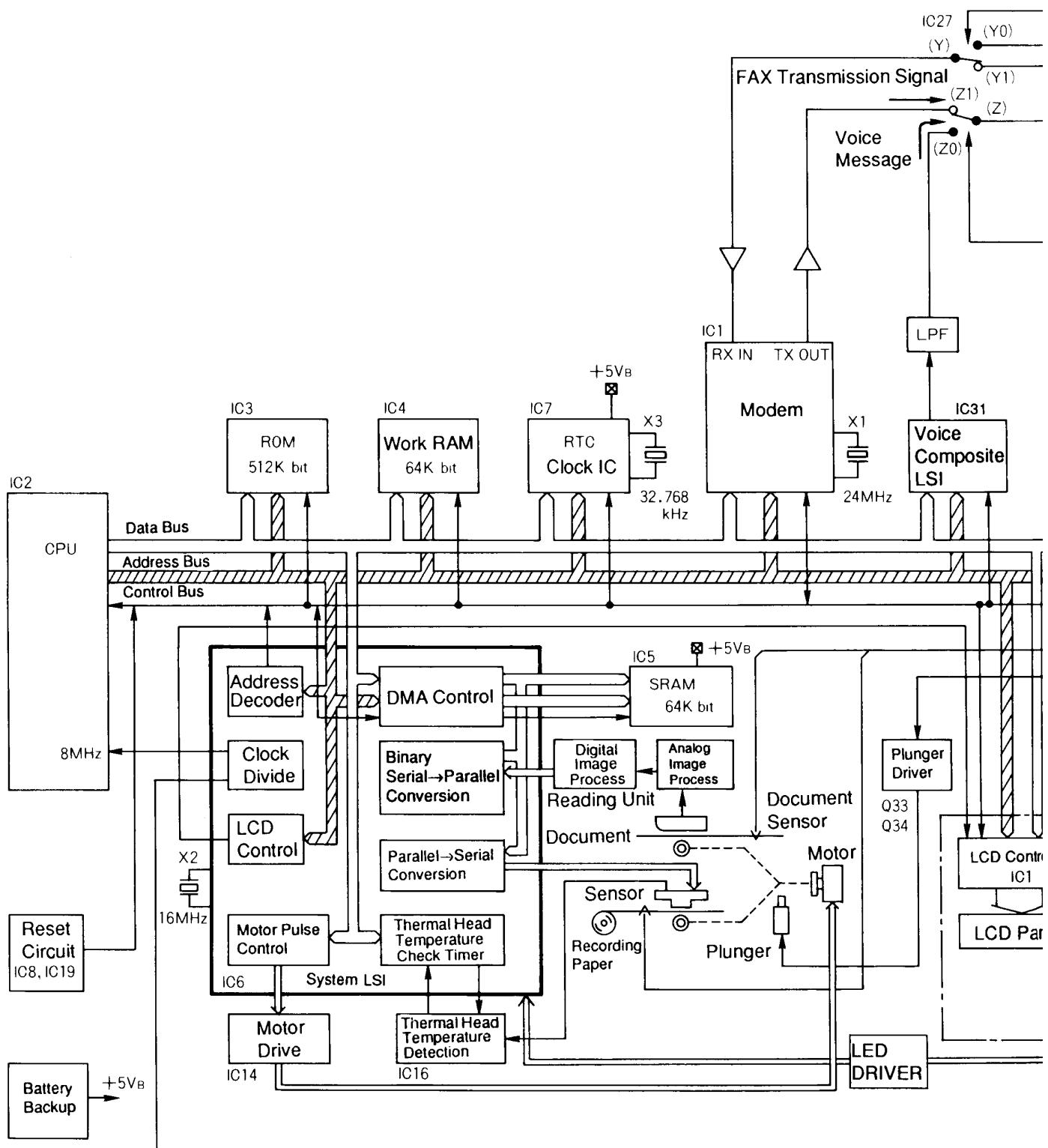
Ref. No. 8	<b>HOW TO REMOVE THE POWER SUPPLY AND MAIN BOARDS</b>
<b>Procedure</b> 3→4→5→6→8	<ol style="list-style-type: none"> <li>1) Remove the four screws (Ⓐ).</li> <li>2) Remove the four connectors.</li> <li>3) Remove the earth wire.</li> <li>4) Remove the power supply aboard.</li> <li>5) Remove the sheet.</li> <li>6) Remove the four screws (Ⓑ).</li> <li>7) Remove the eleven connectors.</li> <li>8) Remove the main boards.</li> </ol>
Ref. No. 9	<b>HOW TO REMOVE THE CCD UNIT</b>
<b>Procedure</b> 3→4→5→6→8→9	<ol style="list-style-type: none"> <li>1) Remove the two screws (Ⓐ).</li> <li>2) Remove the CCD unit by keeping the lever depressed in the direction of the arrow to replace the CCD unit. Remove the Document Sensor Board (refer to No. 10 on page 27) and the core from the old CCD unit and install it in the new one.</li> </ol>
	<p><b>Note:</b> Never subject the center part of the CCD unit to strong pressure.</p>

Ref. No. 10	<b>HOW TO REMOVE THE DOCUMENT FEED ROLLER AND DOCUMENT SENSOR BOARD</b>
Procedure 3→4→5→6→ 8→9→10	<p>(DOCUMENT FEED ROLLER)</p> <ol style="list-style-type: none"> <li>1) Remove the document feed roller.</li> </ol> <p>(DOCUMENT SENSOR BOARD)</p> <ol style="list-style-type: none"> <li>1) Remove the cover.</li> <li>2) Remove the document sensor board.</li> </ol>
 <p><b>Cleaning:</b> Clean the roller and glass with a cloth soaked in alcohol.</p>	
Ref. No. 11	<b>HOW TO REMOVE THE THERMAL HEAD UNIT AND RECORDING PAPER SENSOR BOARD</b>
Procedure 3→4→5→6→ 7→11	<ol style="list-style-type: none"> <li>1) Remove the retaining ring, and remove the recording paper cover lock plate.</li> <li>2) Remove the two screws (A).</li> <li>3) Remove the thermal head unit.</li> <li>4) Remove the two connectors from thermal head unit.</li> <li>5) Remove the two screws (B), and remove the recording paper sensor board.</li> <li>6) Install the new thermal head unit and the recording paper sensor board.</li> </ol>  <p><b>Cleaning:</b> Clean the printing surface of thermal head with a cloth soaked in alcohol.</p>

Ref. No. 12	<b>HOW TO REMOVE THE DRIVING PART</b>
Procedure 3→4→5→6→ 12	<p>1) Remove the retaining ring, and remove the recording paper cover lock plate.</p> <p>2) Remove the two screws (Ⓐ).</p> <p>3) Remove the thermal head unit.</p> <p>4) Remove the two screws (Ⓑ).</p> <p>5) Replace the driving part.</p>

Ref. No. 13	<b>HOW TO REMOVE THE IMAGE BOARD</b>
Procedure 3→4→5→6→ 8→9→13	<p>1) Remove the flat cable and flexible cable.</p> <p>2) Remove the two screws (Ⓐ).</p> <p>3) Remove the image board.</p>



## Block Diagram

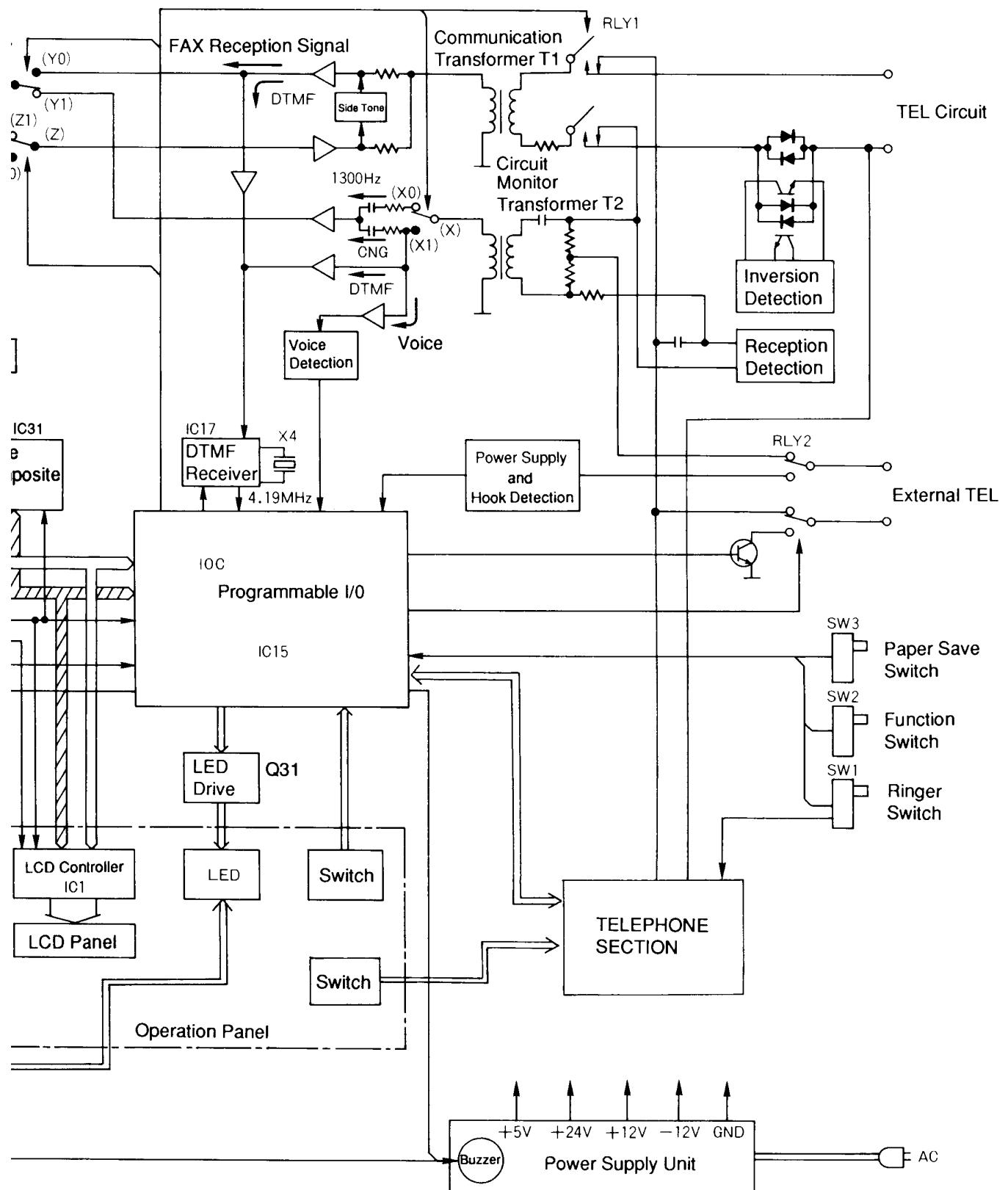


Fig. 1



## Overall Circuit Diagram

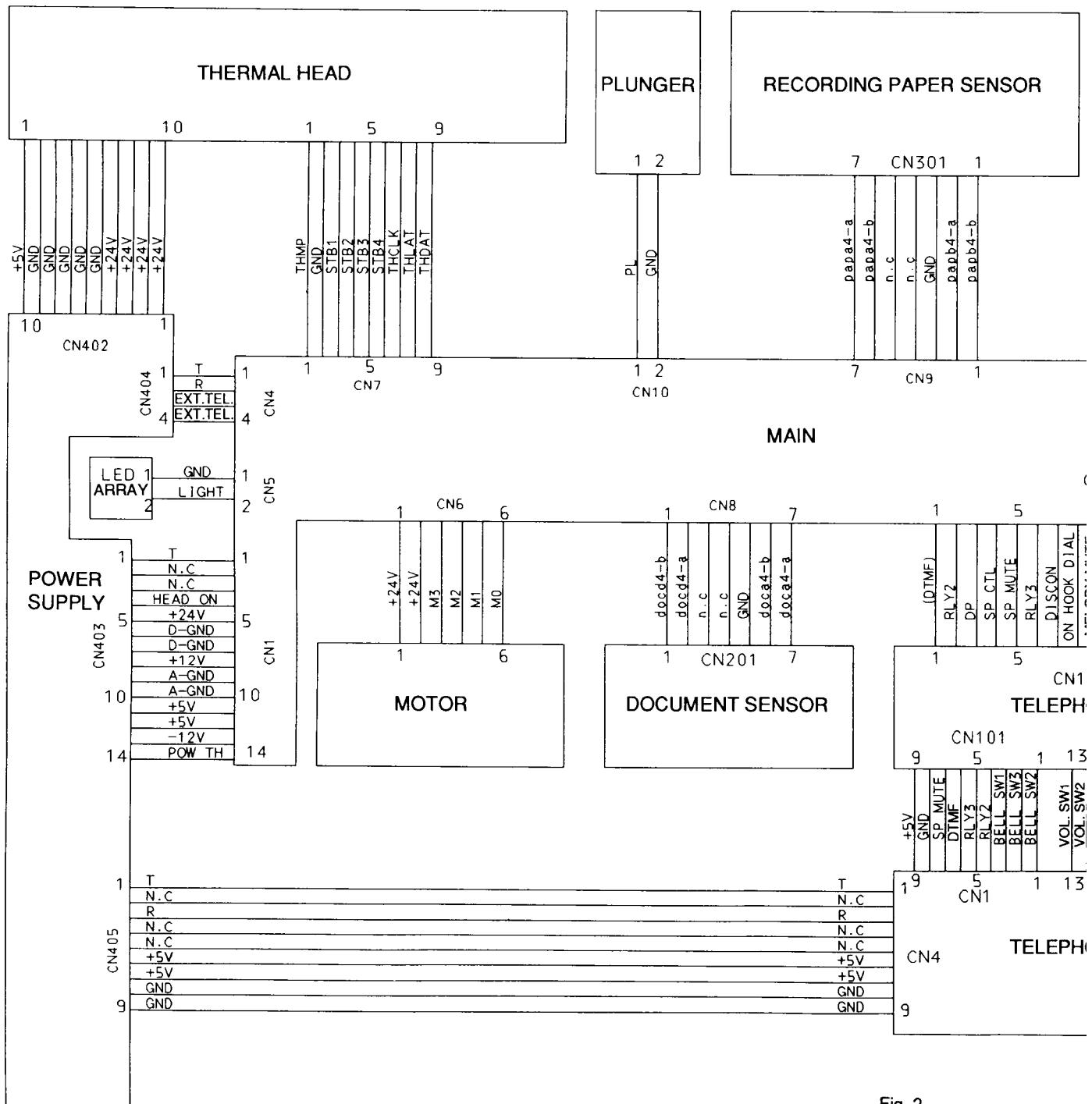
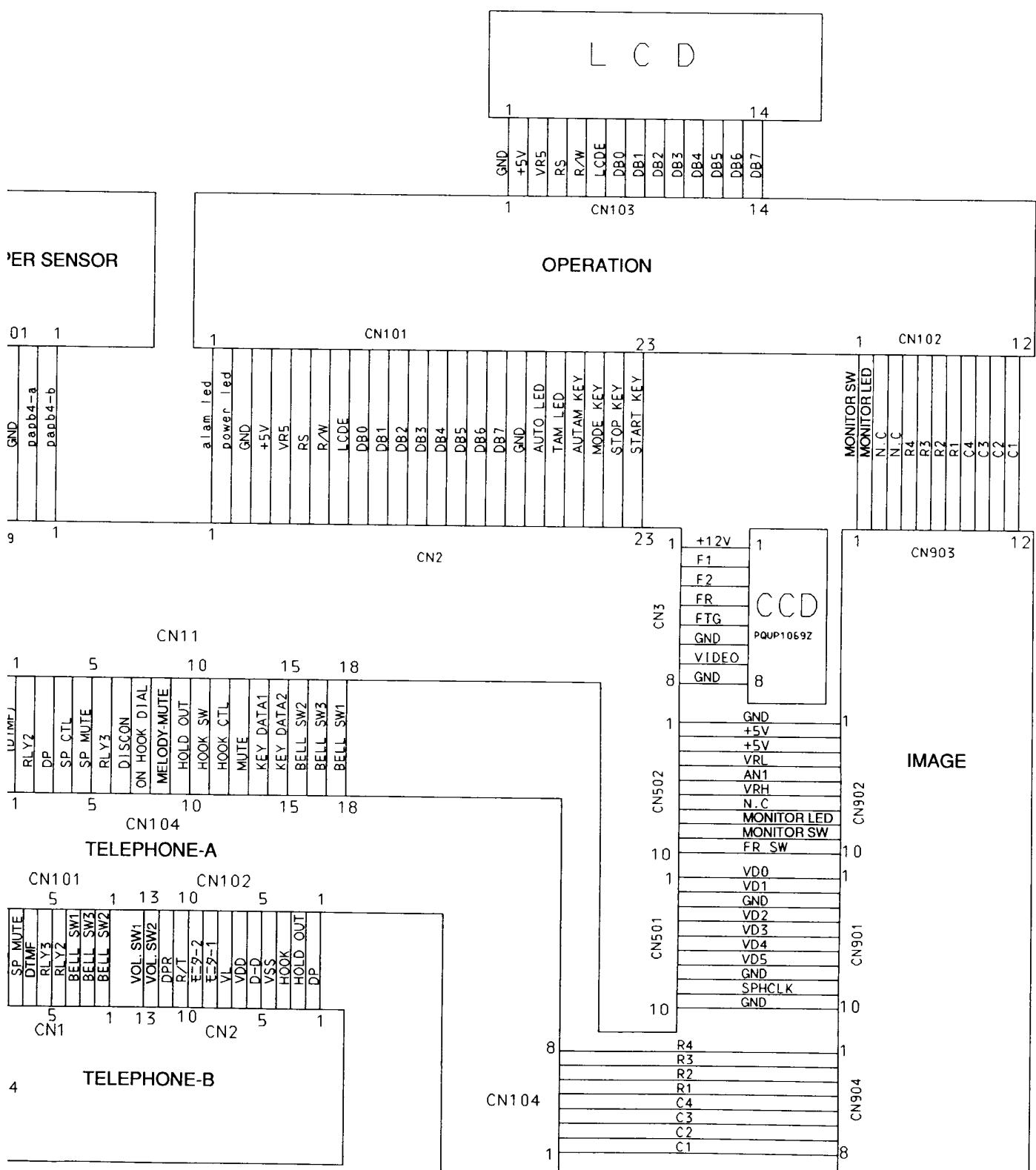


Fig. 2

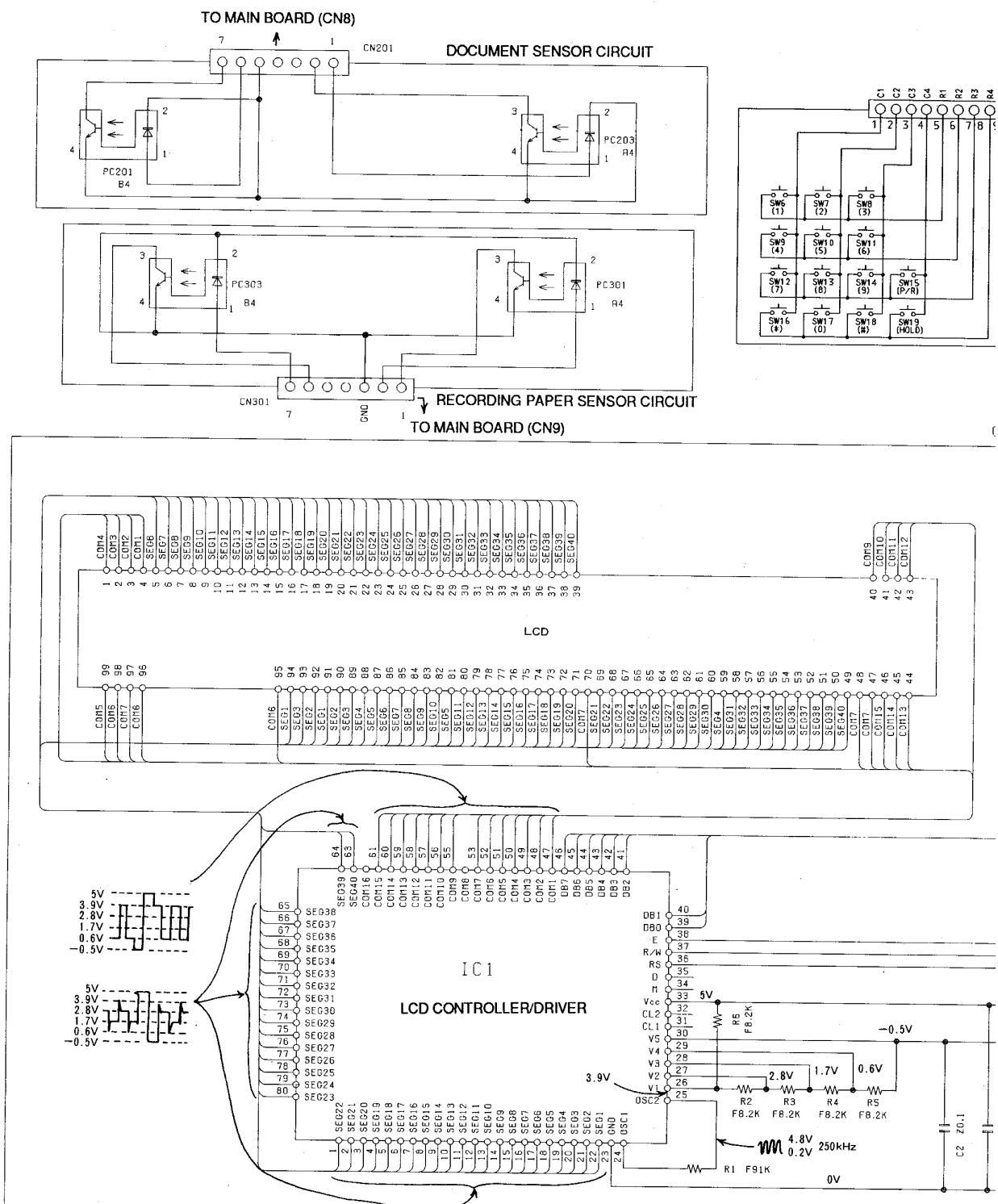


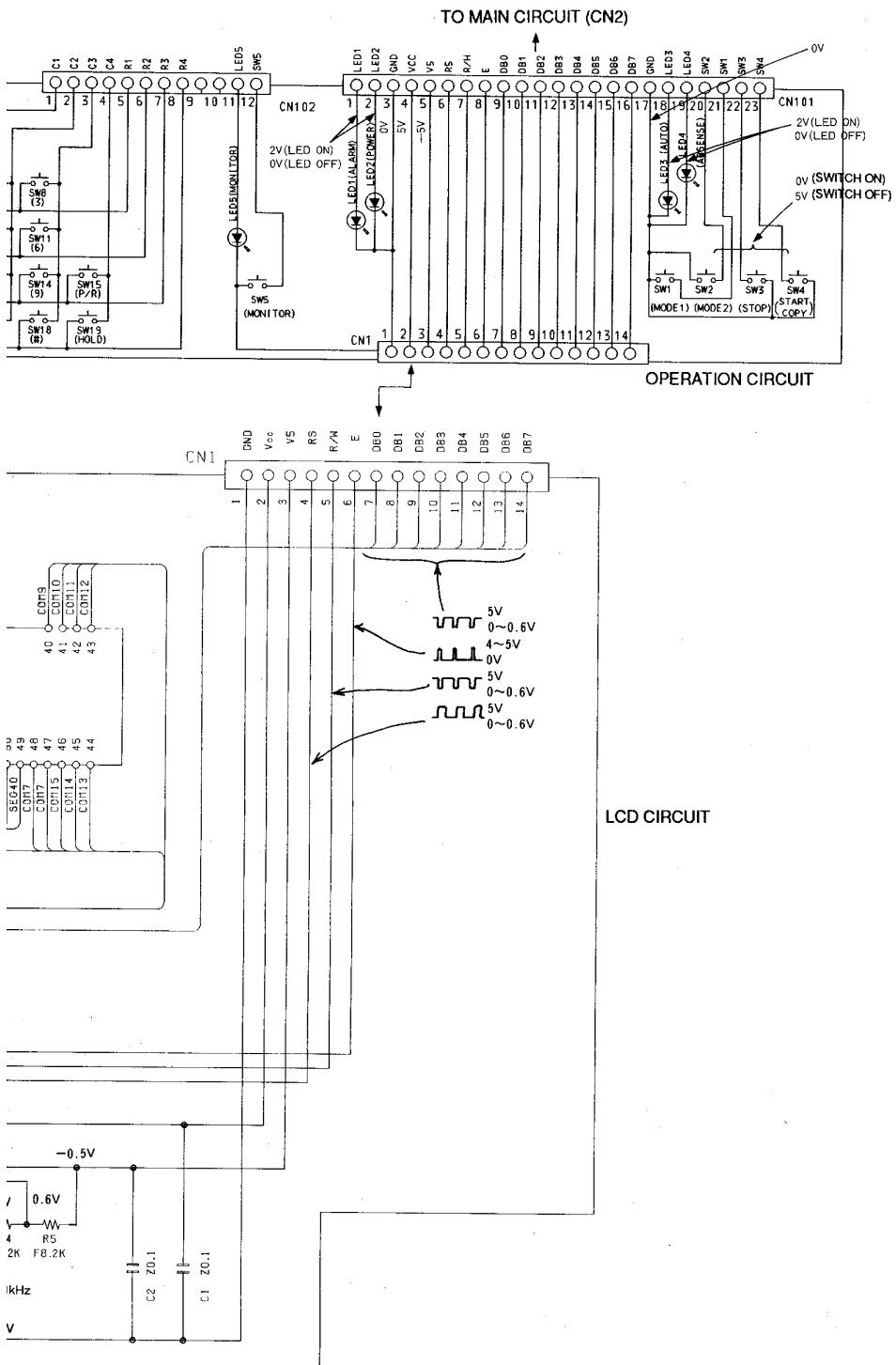
# KX-F76

## II Circuit Diagram



## ■ OPERATION/LCD CIRCUIT

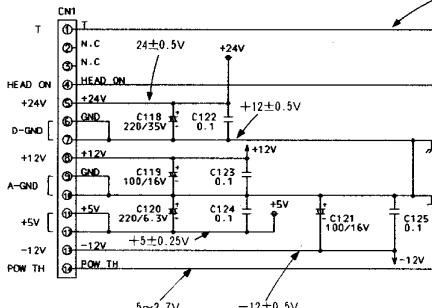




1 | 2 | 3 | 4 | 5 | 6 |

A

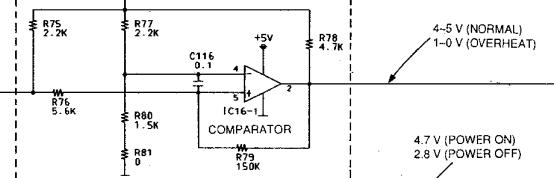
TO POWER SUPPLY BOARD (CN403)



4~5V (RING)  
1V

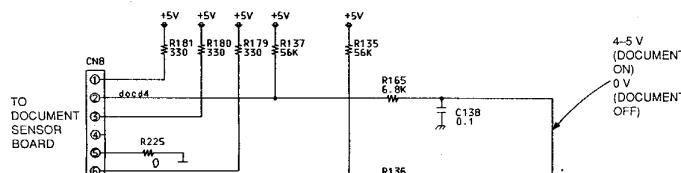
B

POWER SUPPLY THERMAL DETECTION CIRCUIT

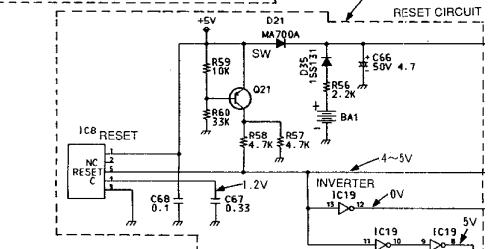


C

DOCUMENT SENSOR INTERFACE

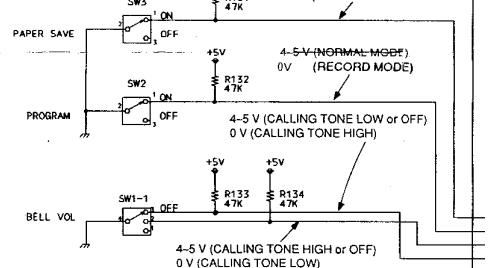


4-5 V (DOCUMENT ON)  
0 V (DOCUMENT OFF)



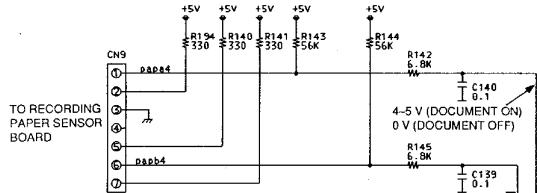
D

4-5 V (DOCUMENT ON)  
0 V (DOCUMENT OFF)



E

PAPER SENSOR INTERFACE



4-5 V (DOCUMENT ON)  
0 V (DOCUMENT OFF)

F

P.G. INTERFACE  
24 V (PLUNGER ON)  
0 V (PLUNGER OFF)

TO PLUNGER  
DRIVER  
DRIVER  
Q33  
Q34

4-5 V (SOLENOID ON)  
0 V (SOLENOID OFF)

G

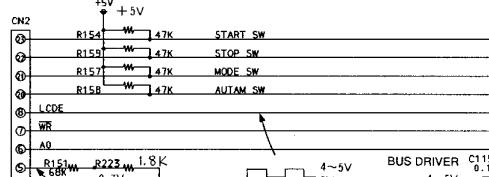
LED AWY INTERFACE  
24V (LED ON)  
0V (LED OFF)

TO LED ARRAY  
CN5  
Q32  
DRIVER  
DRIVER  
Q31  
Q32  
R121  
R122  
R123  
R124

4~5V (LED ON)  
0V (LED OFF)

H

OPERATION INTERFACE

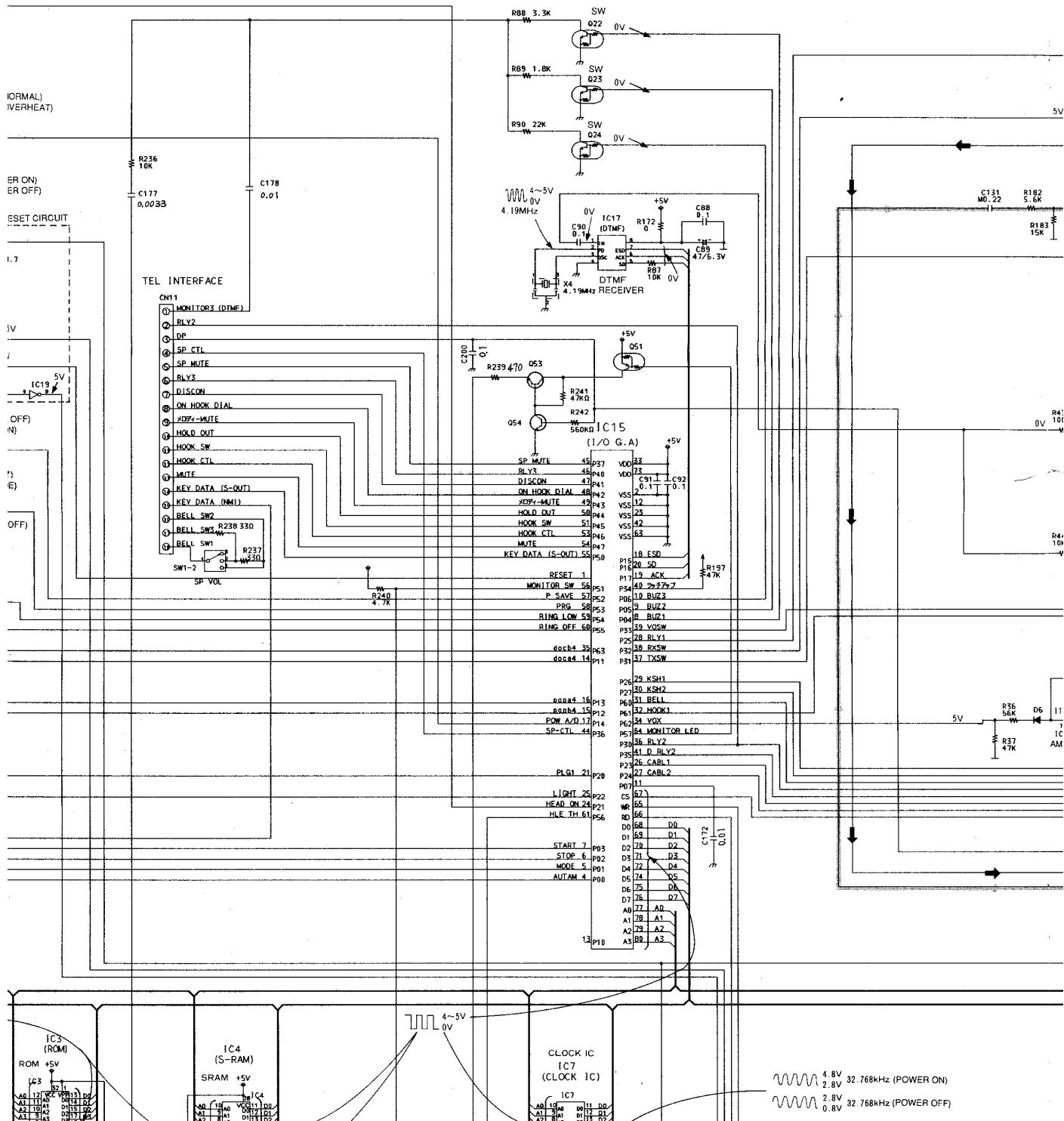


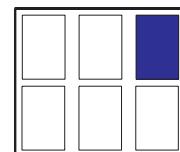
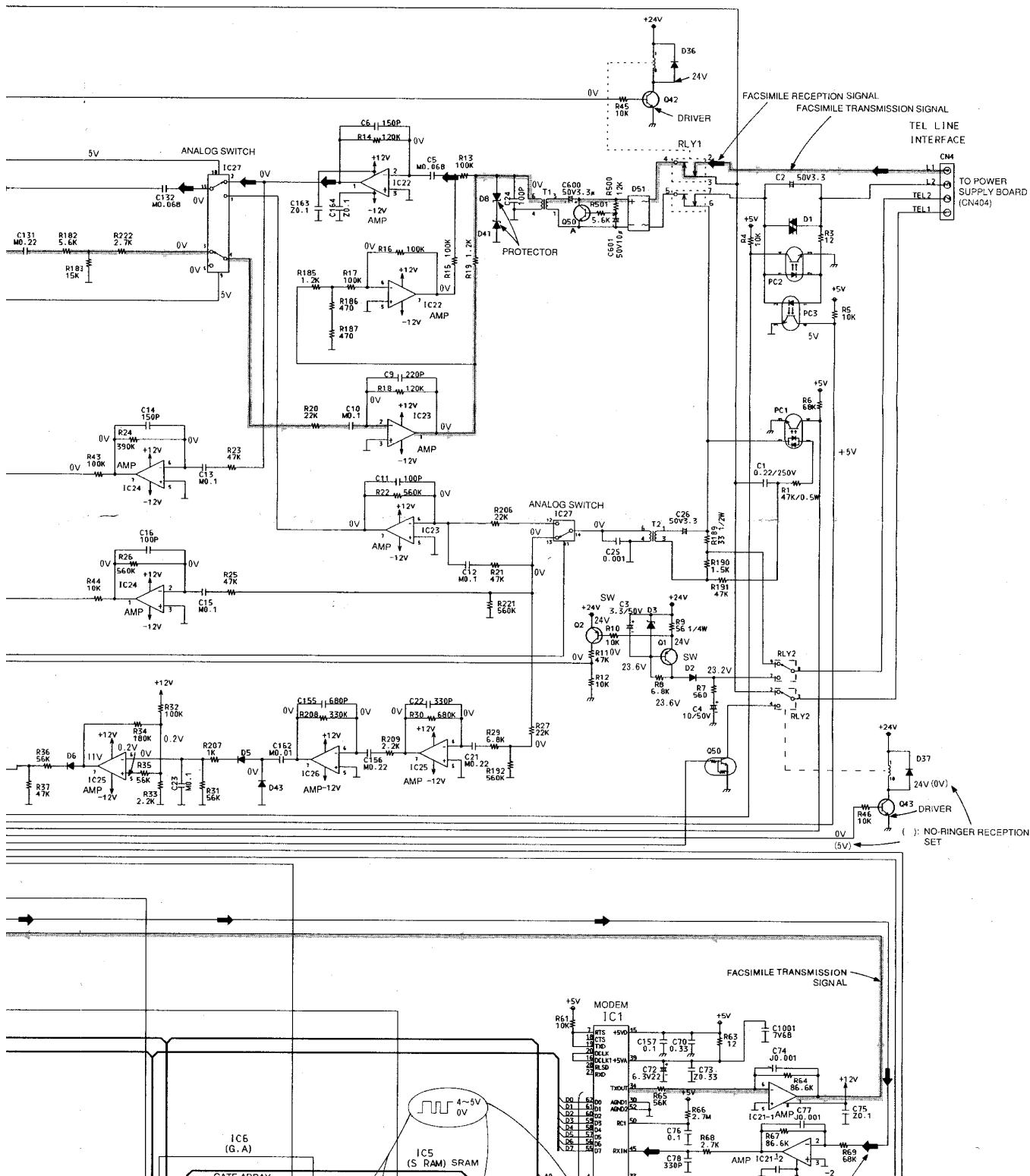
4-5 V (START KEY OFF)  
0 V (START KEY ON)  
4-5 V (STOP KEY OFF)  
0 V (STOP KEY ON)  
4-5 V (IMAGE QUALITY OFF)  
0 V (IMAGE QUALITY ON)  
4-5 V (RECEPTION SET KEY OFF)  
0 V (RECEPTION SET KEY ON)

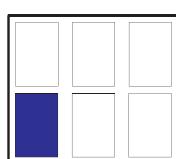
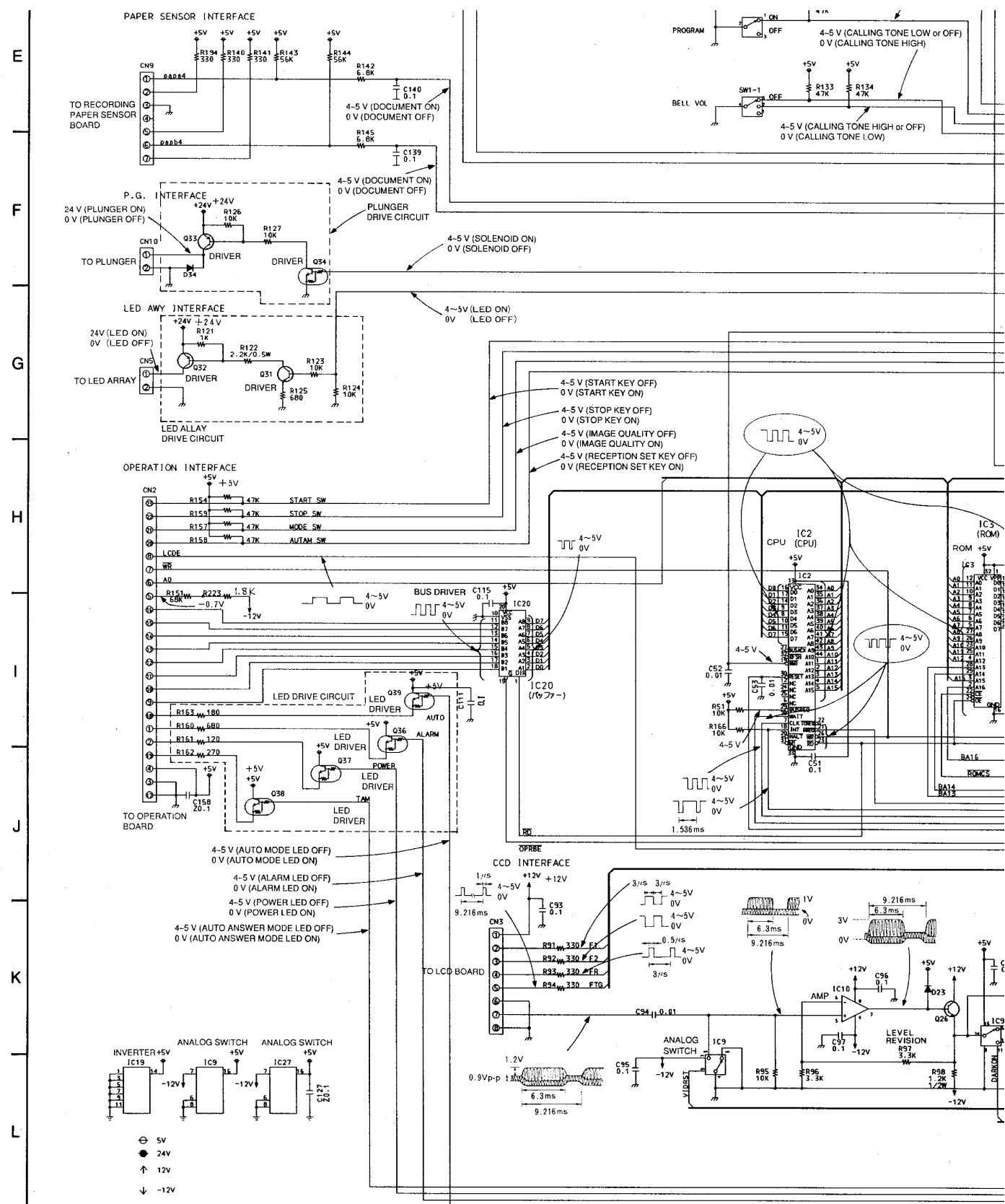
4~5V  
0V

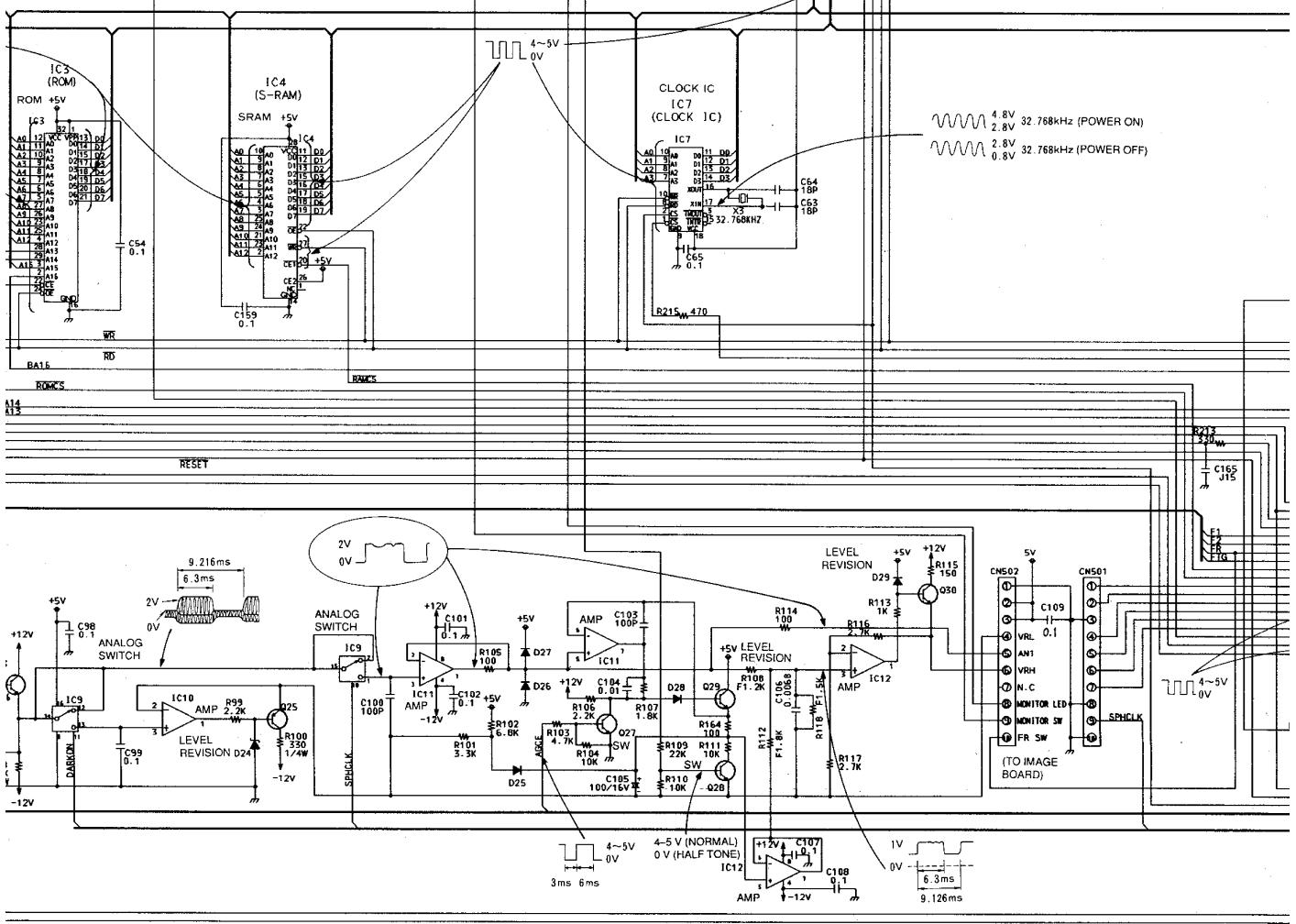
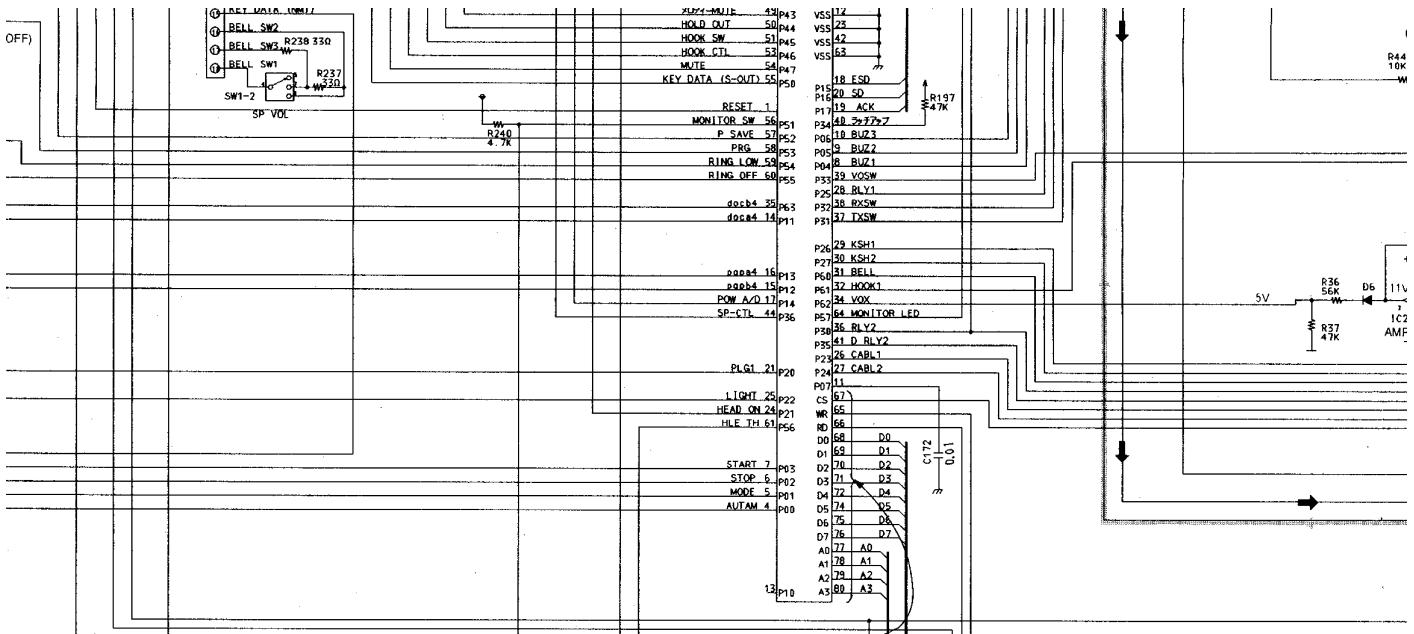
# SCHEMATIC DIAGRAM

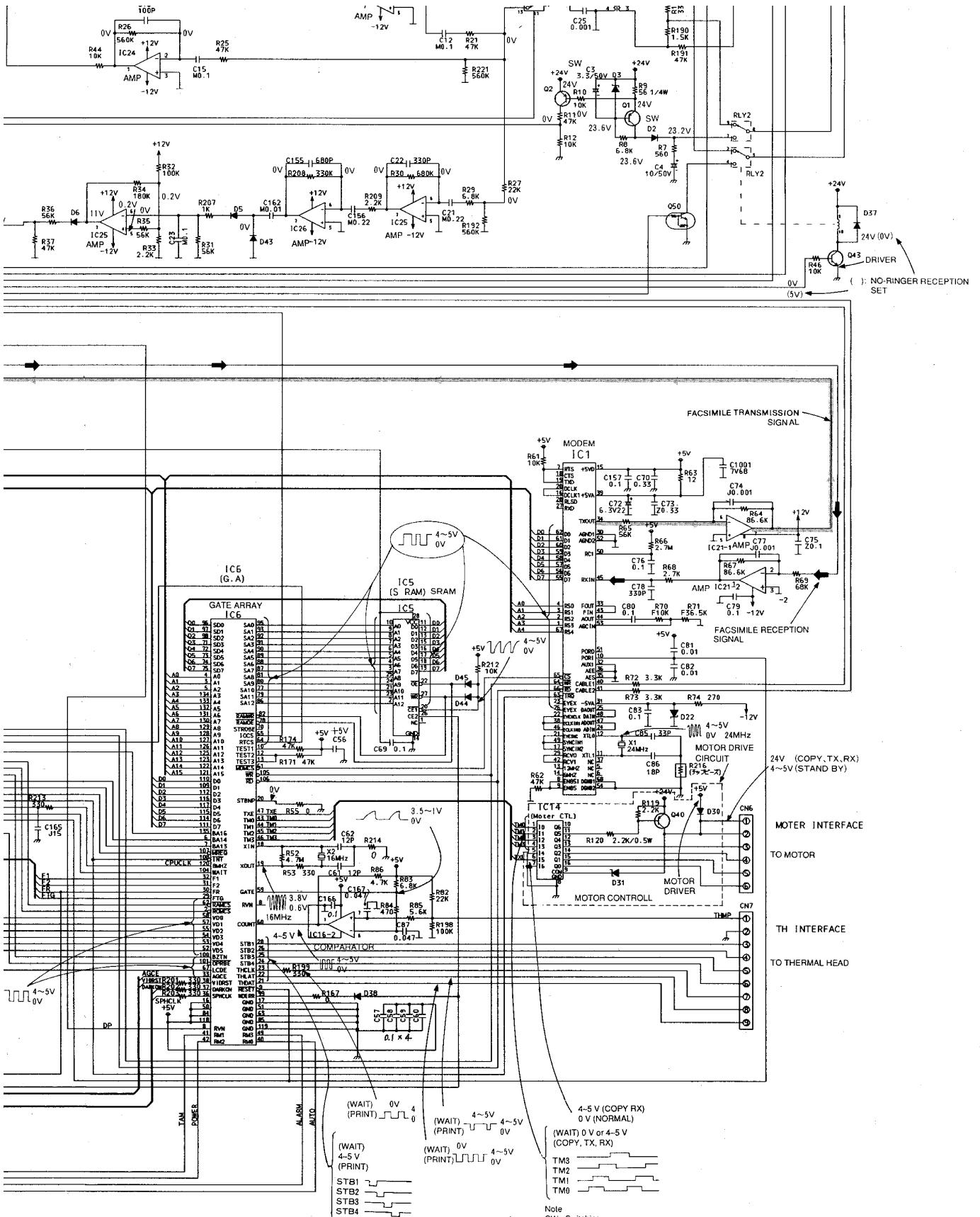
1      7      8      9      10      11      12      1









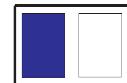
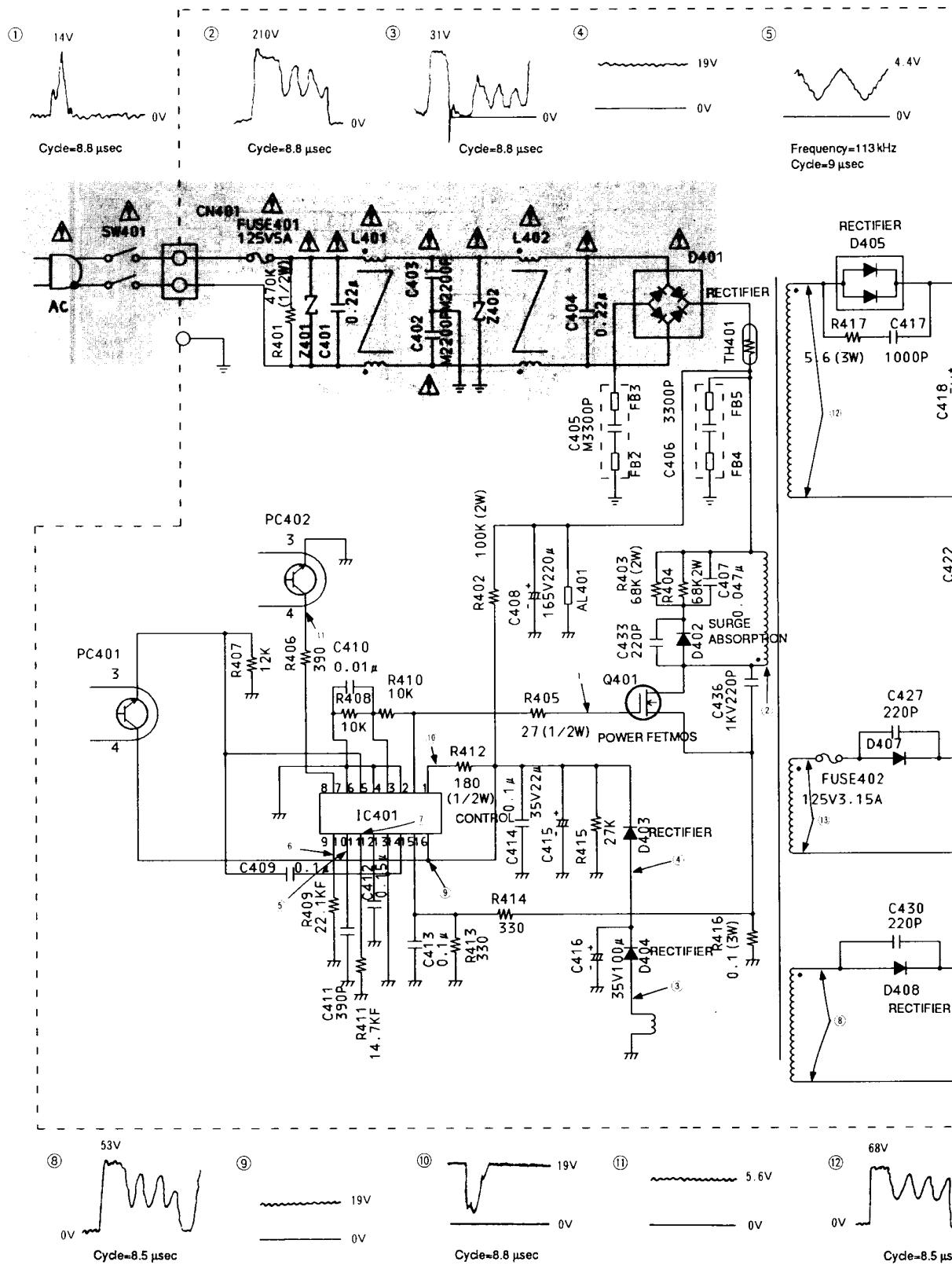


## SCHEMATIC DIAGI

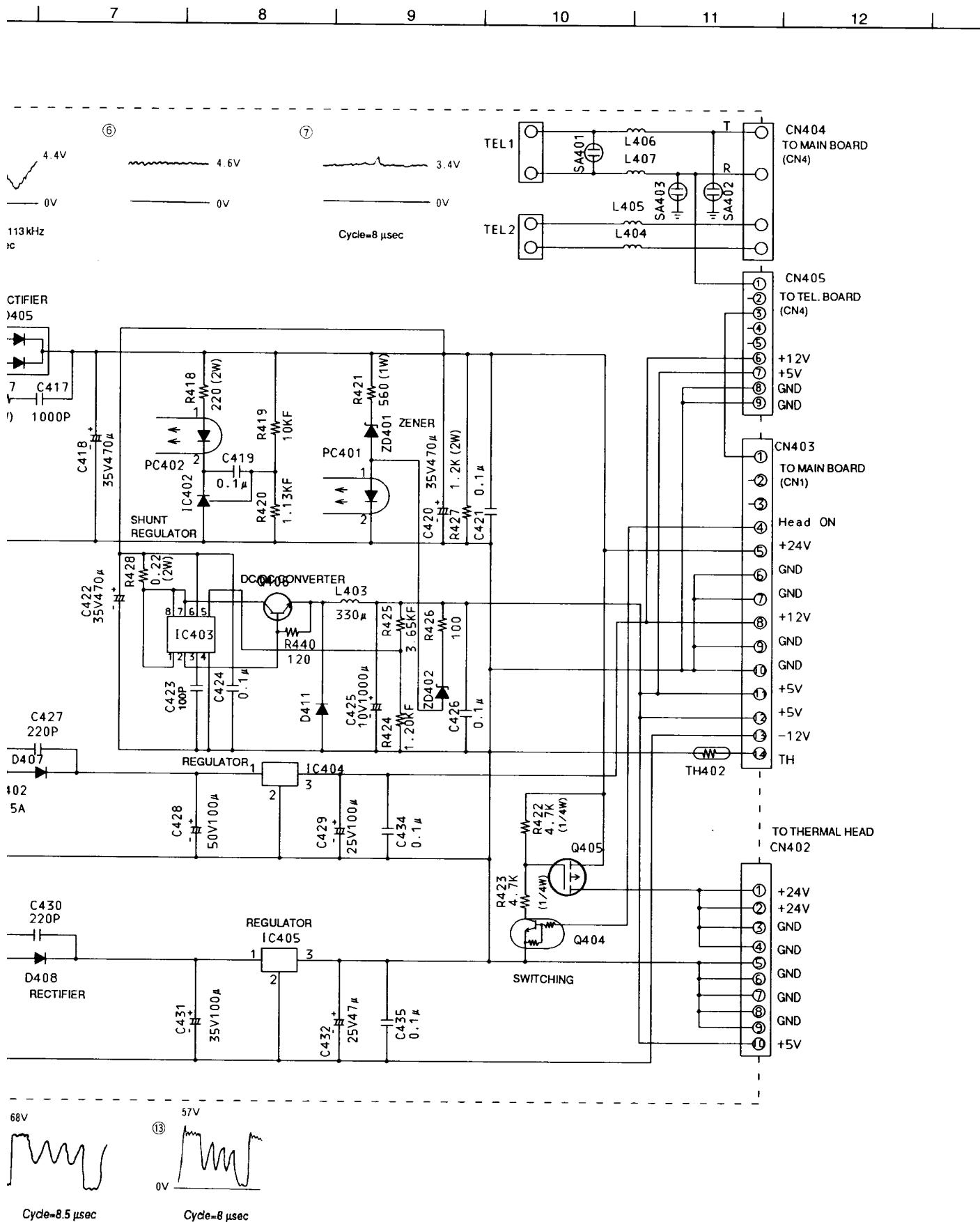
1 1 2 3 4 5 6

A

## ■ POWER SUPPLY CIRCUIT



## C DIAGRAM



## **SCHEMATIC DIAG**

1

2

3

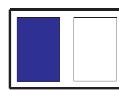
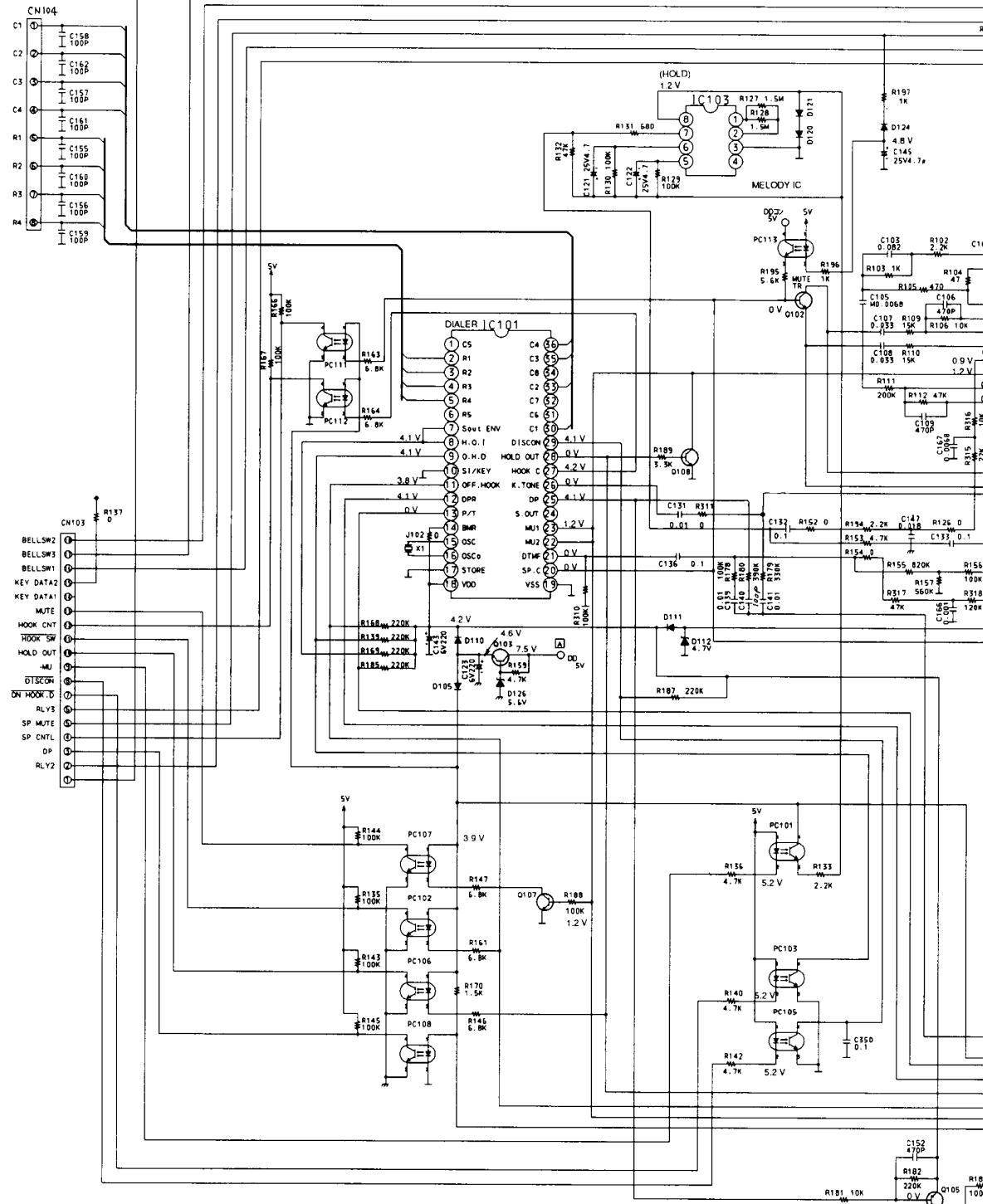
△

4

6

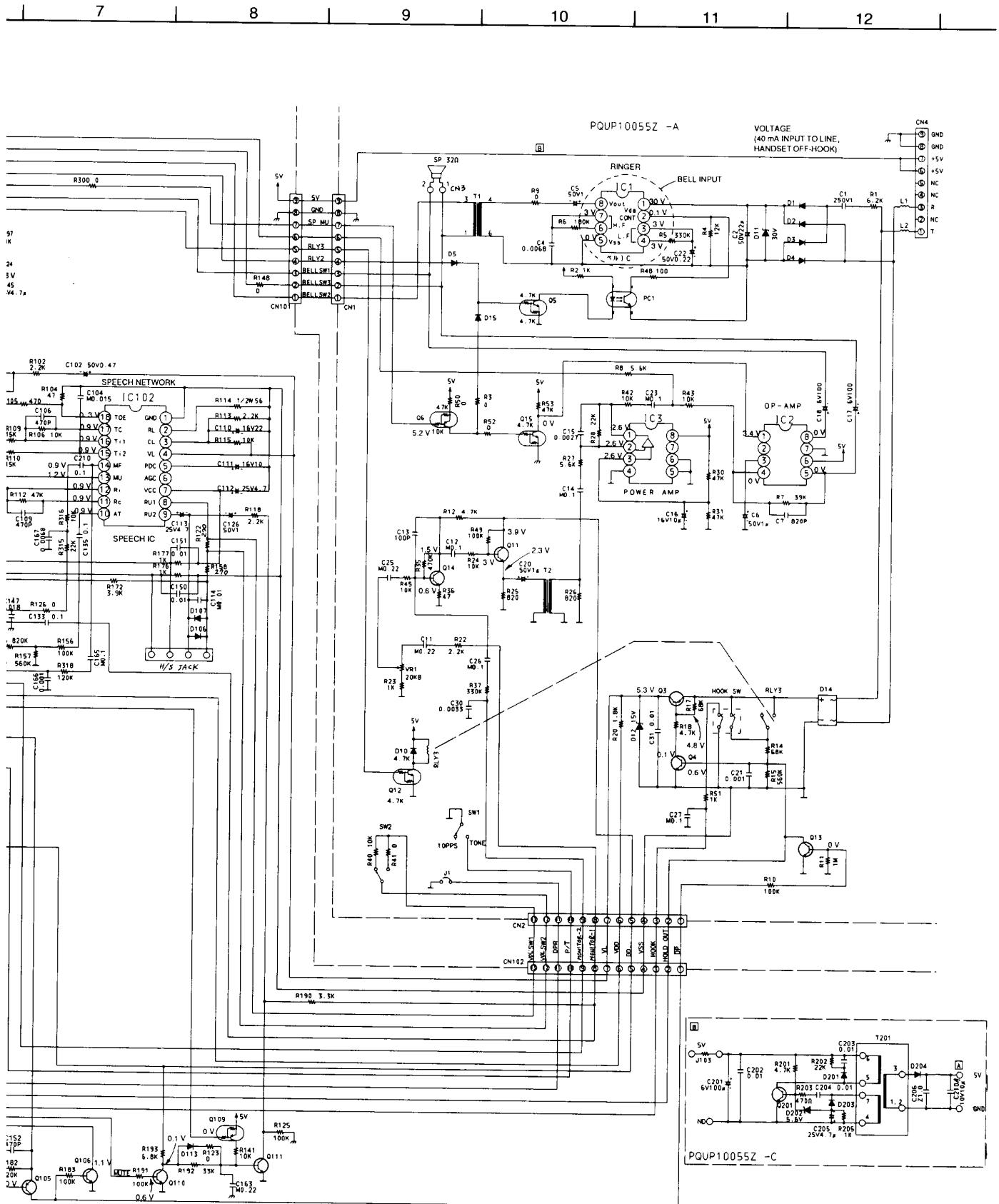
## ■ TELEPHONE CIRCUIT

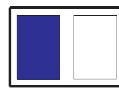
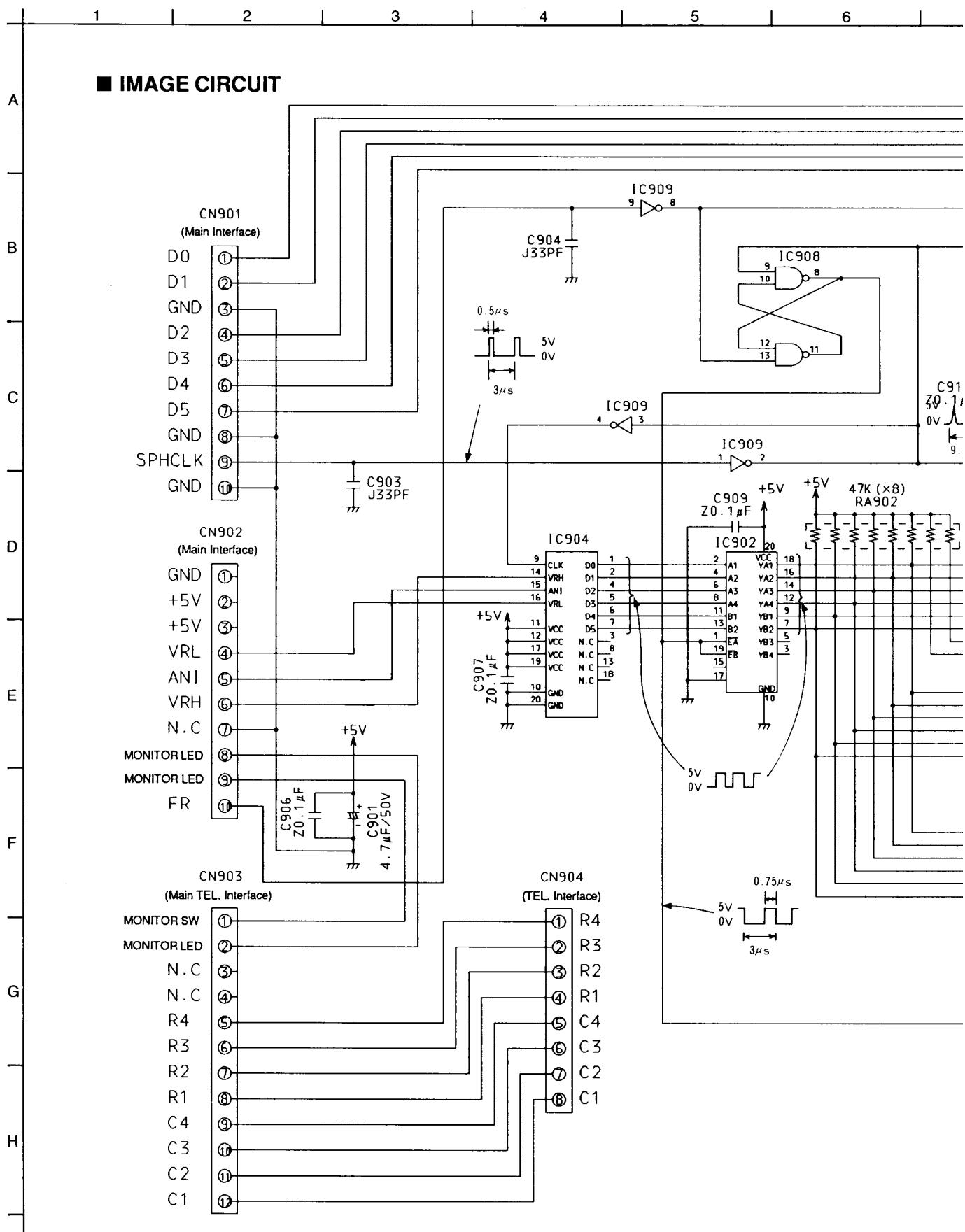
PQUP100552 -B



# KX-F76

## :DIAGRAM





7

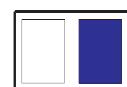
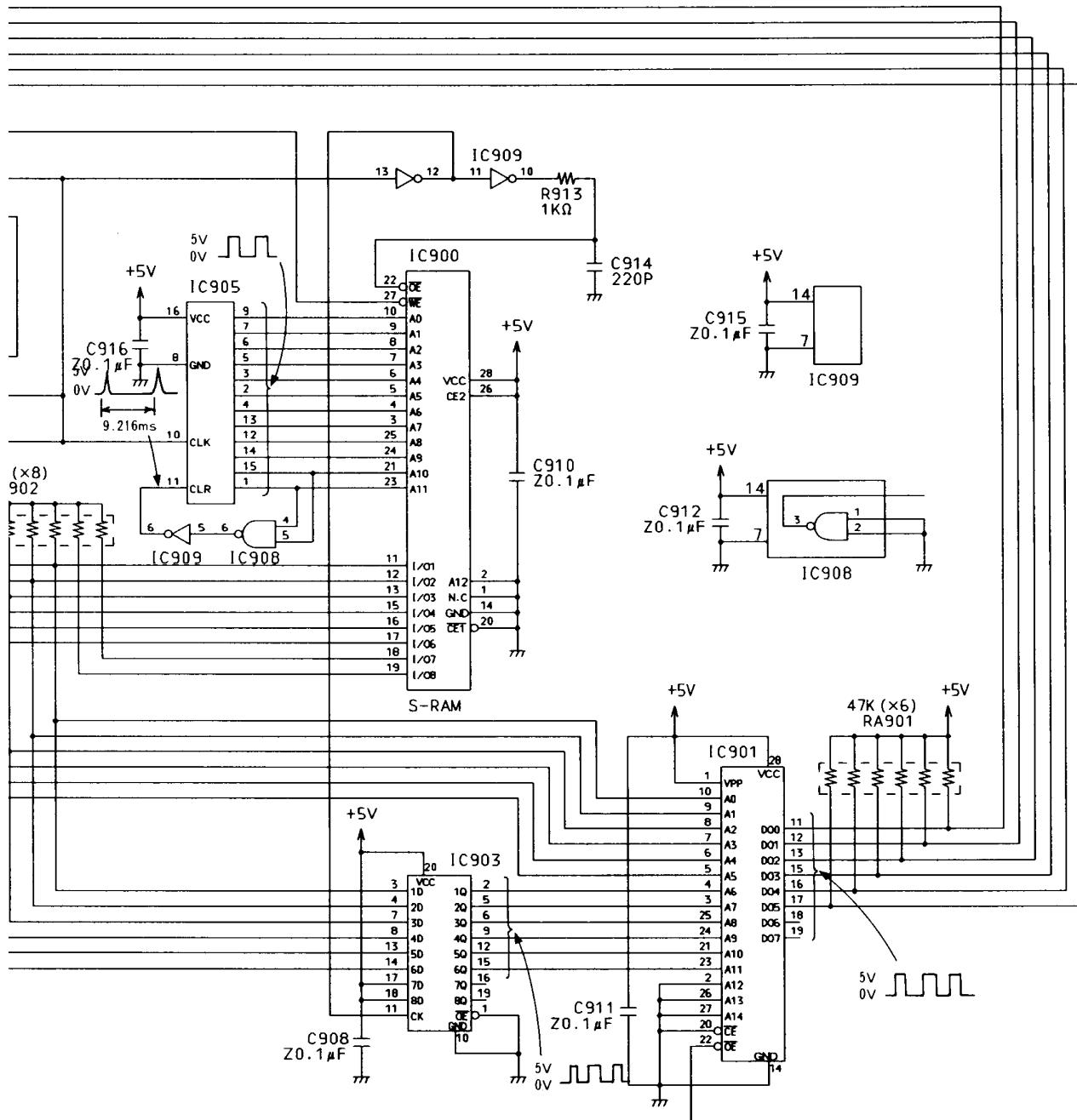
8

9

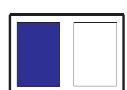
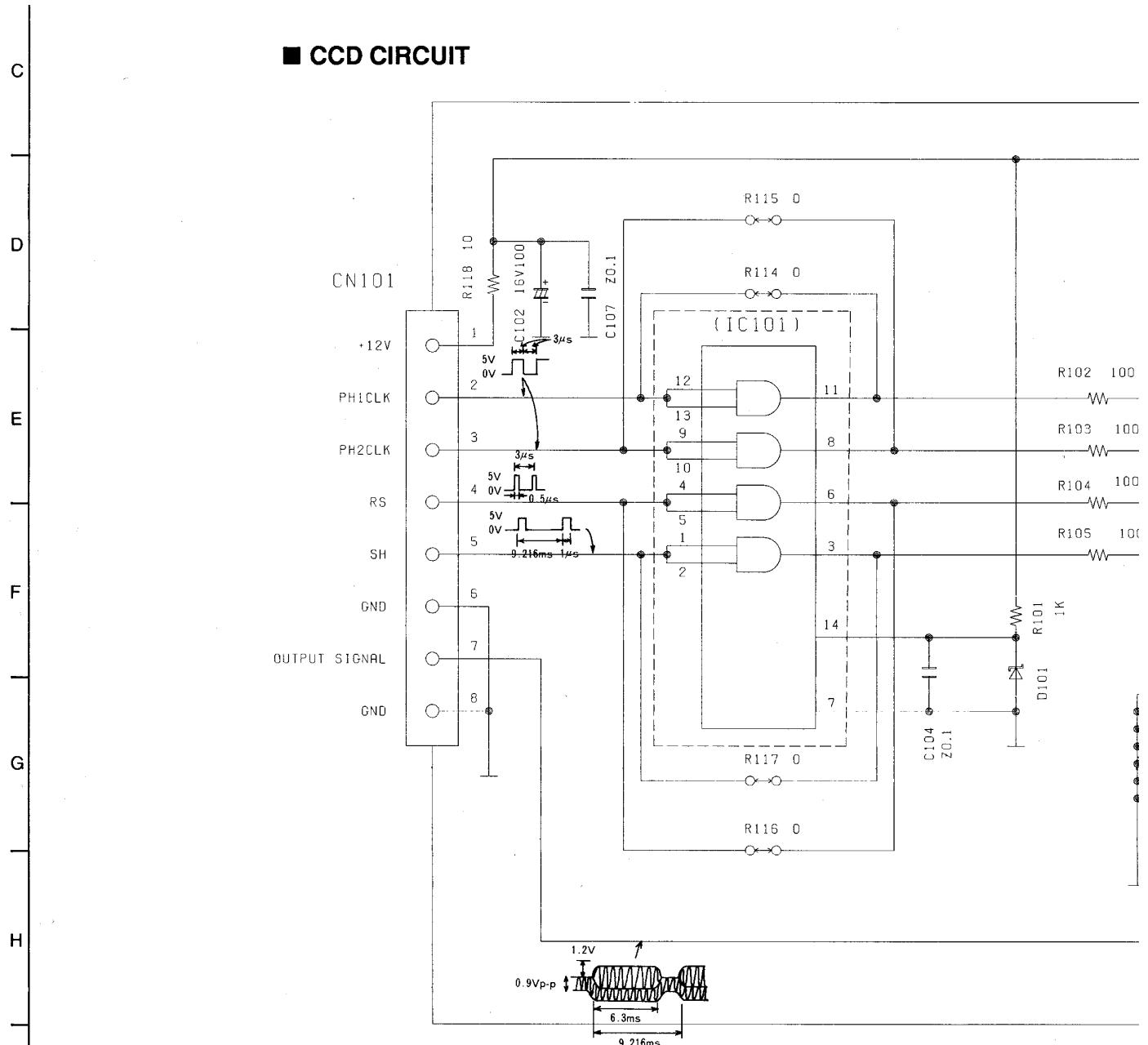
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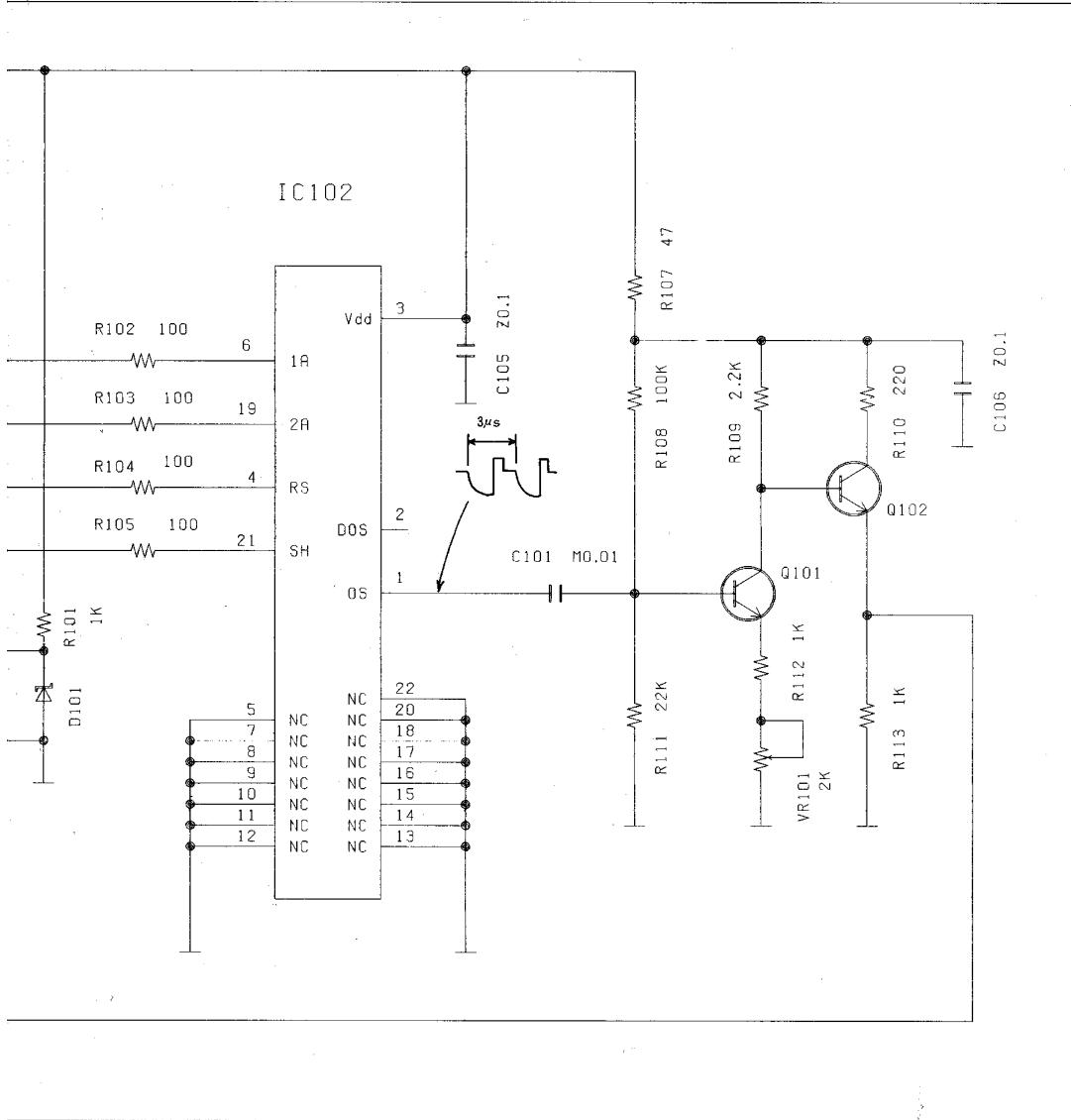
11

12

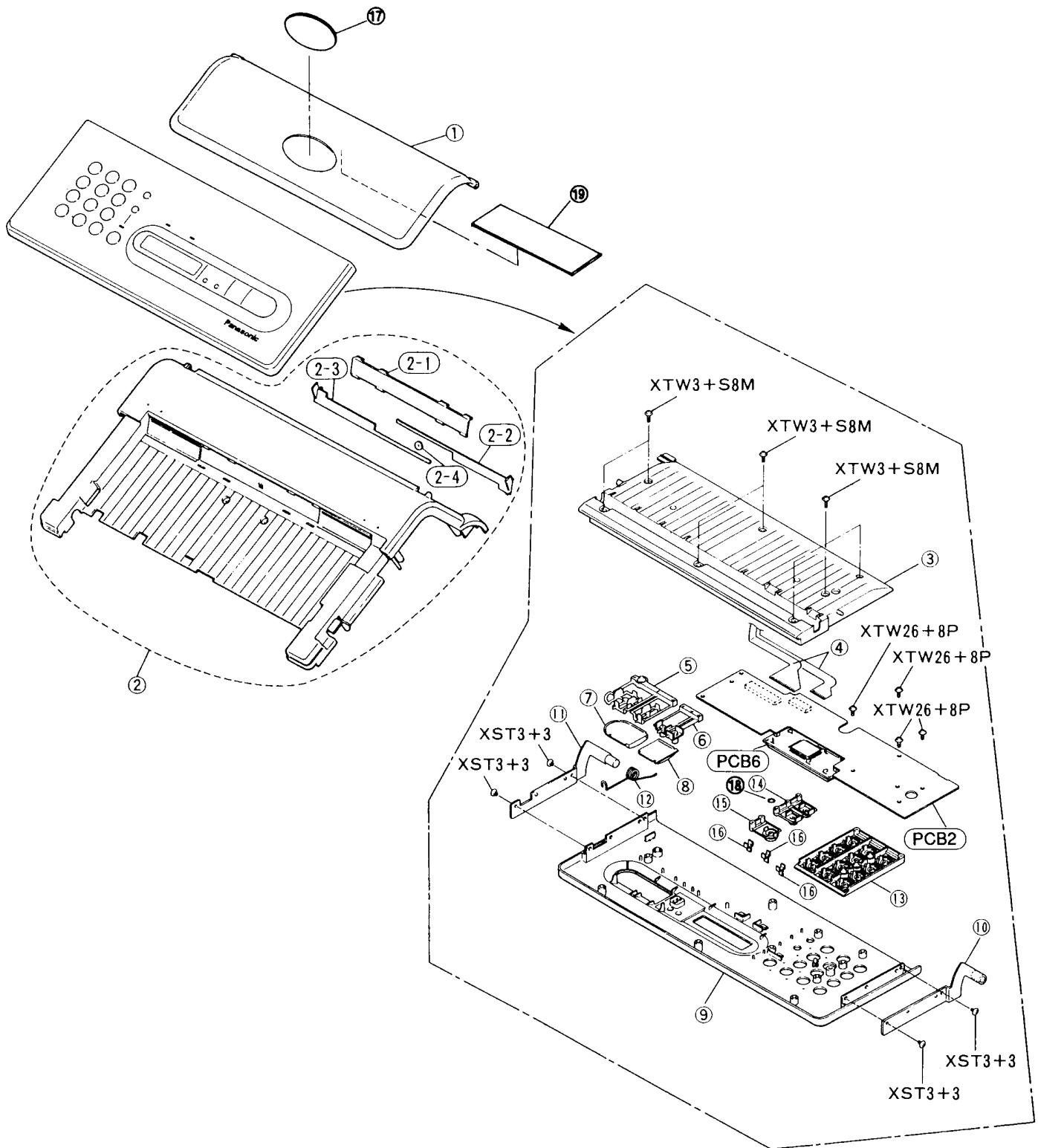


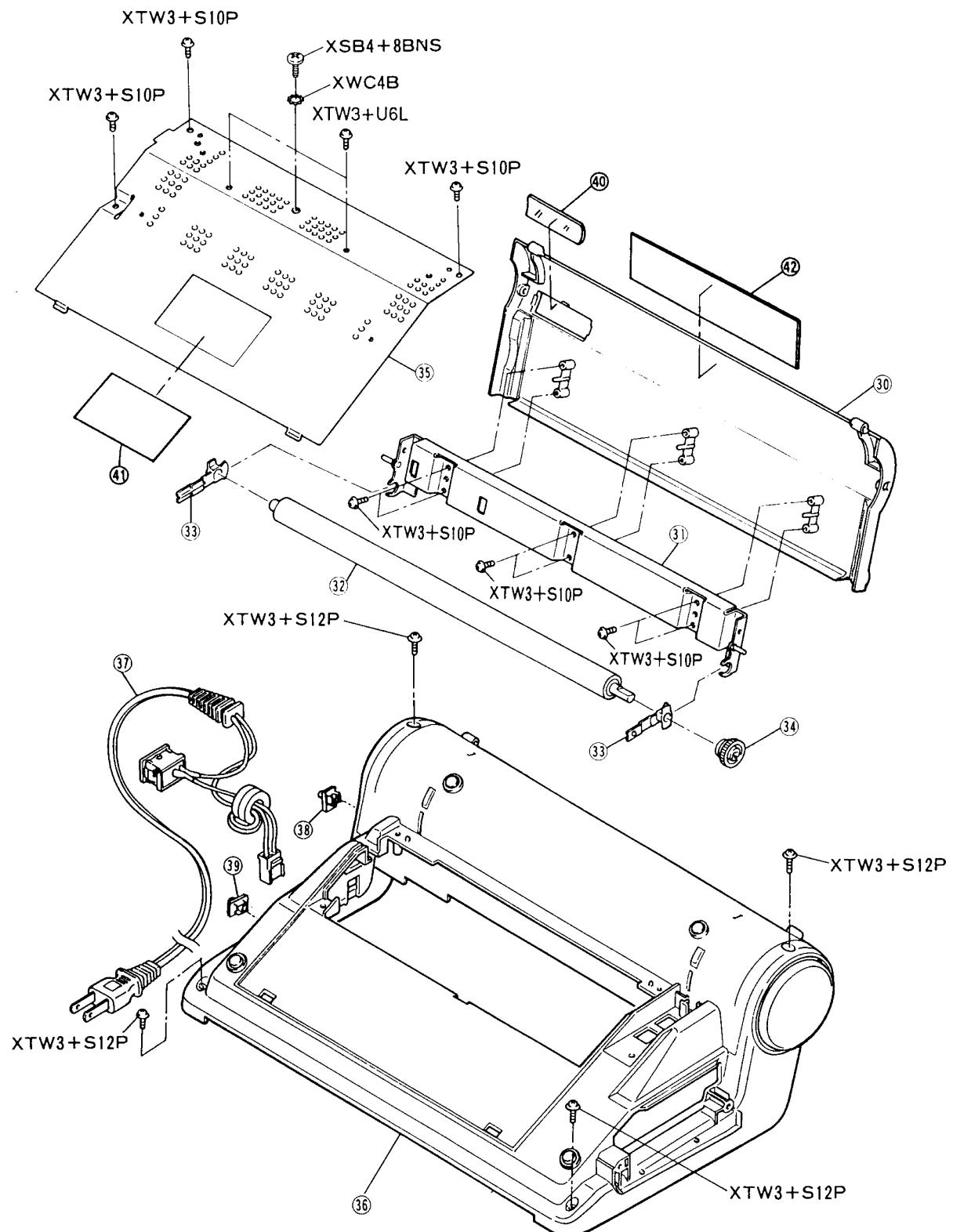
## ■ CCD CIRCUIT

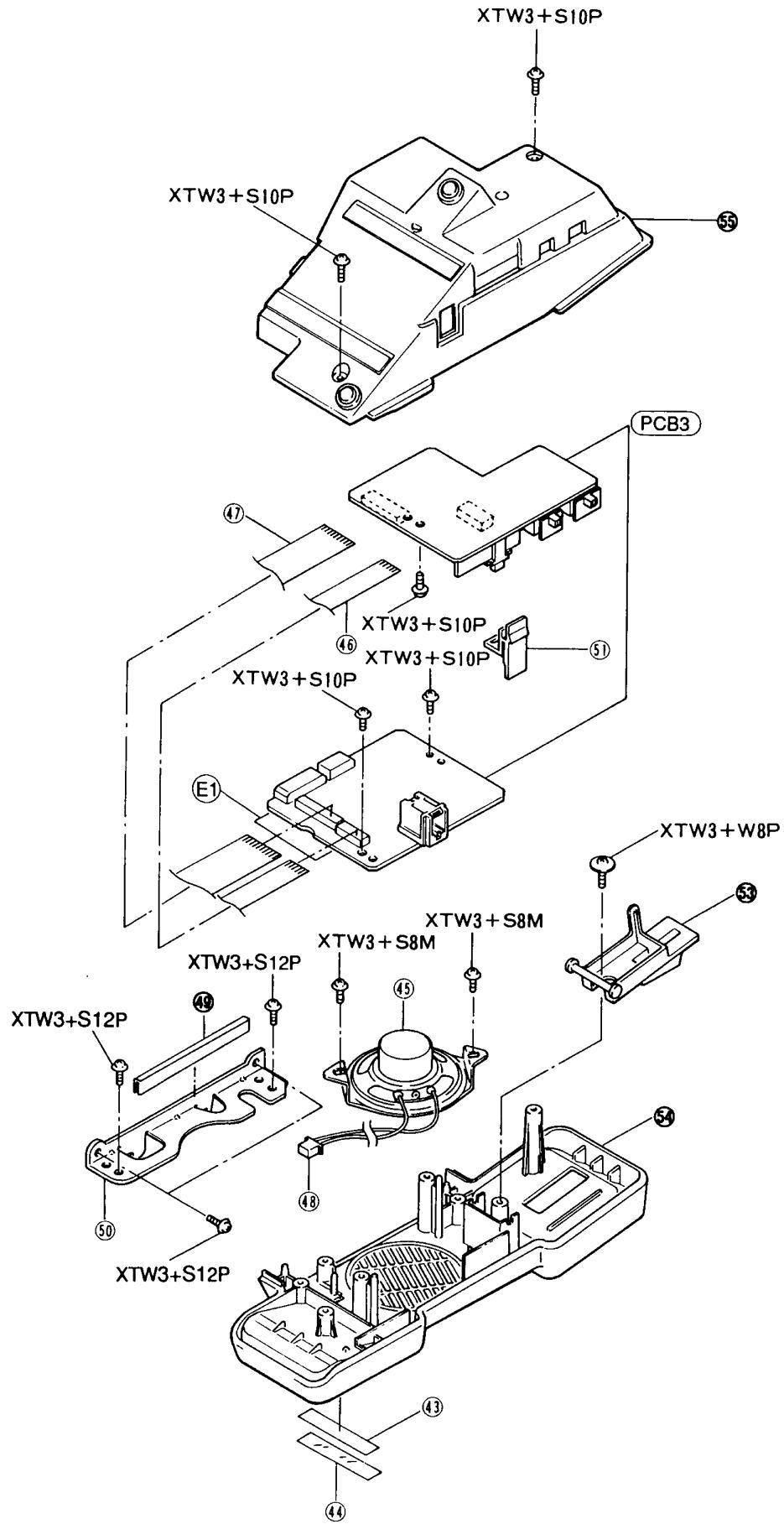


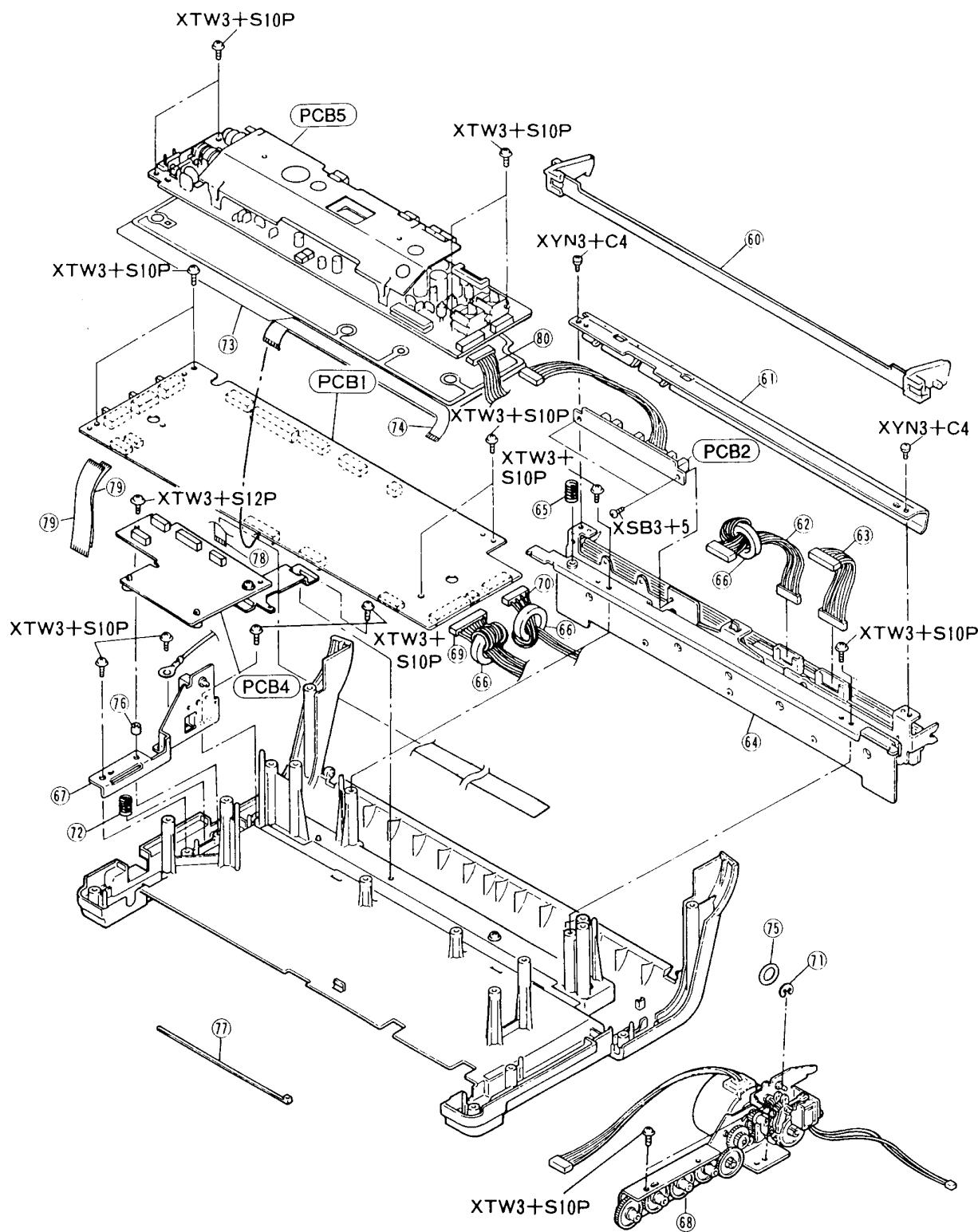


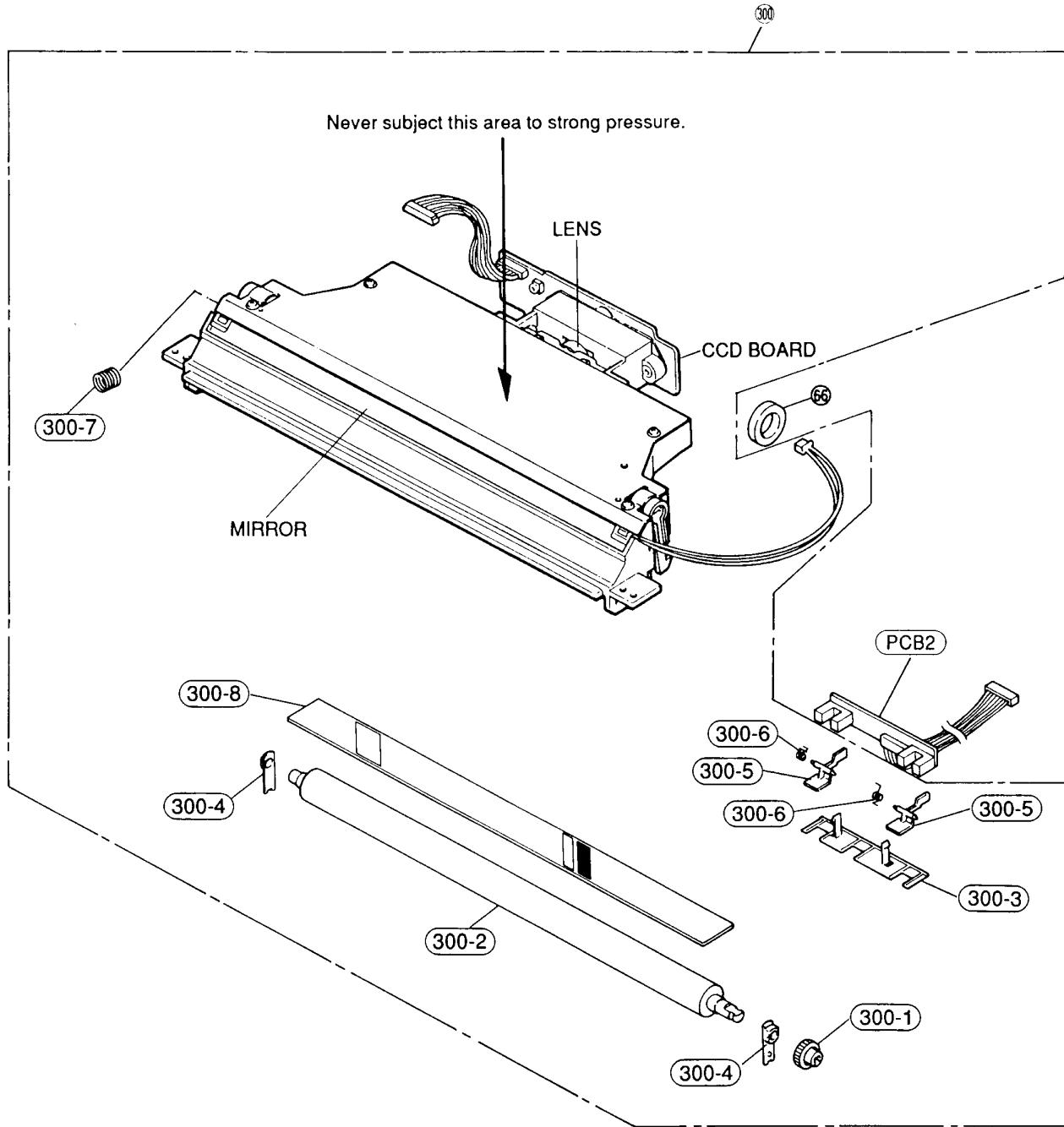
## CABINET, MECHANICAL AND ELECTRICAL PARTS LOCATION





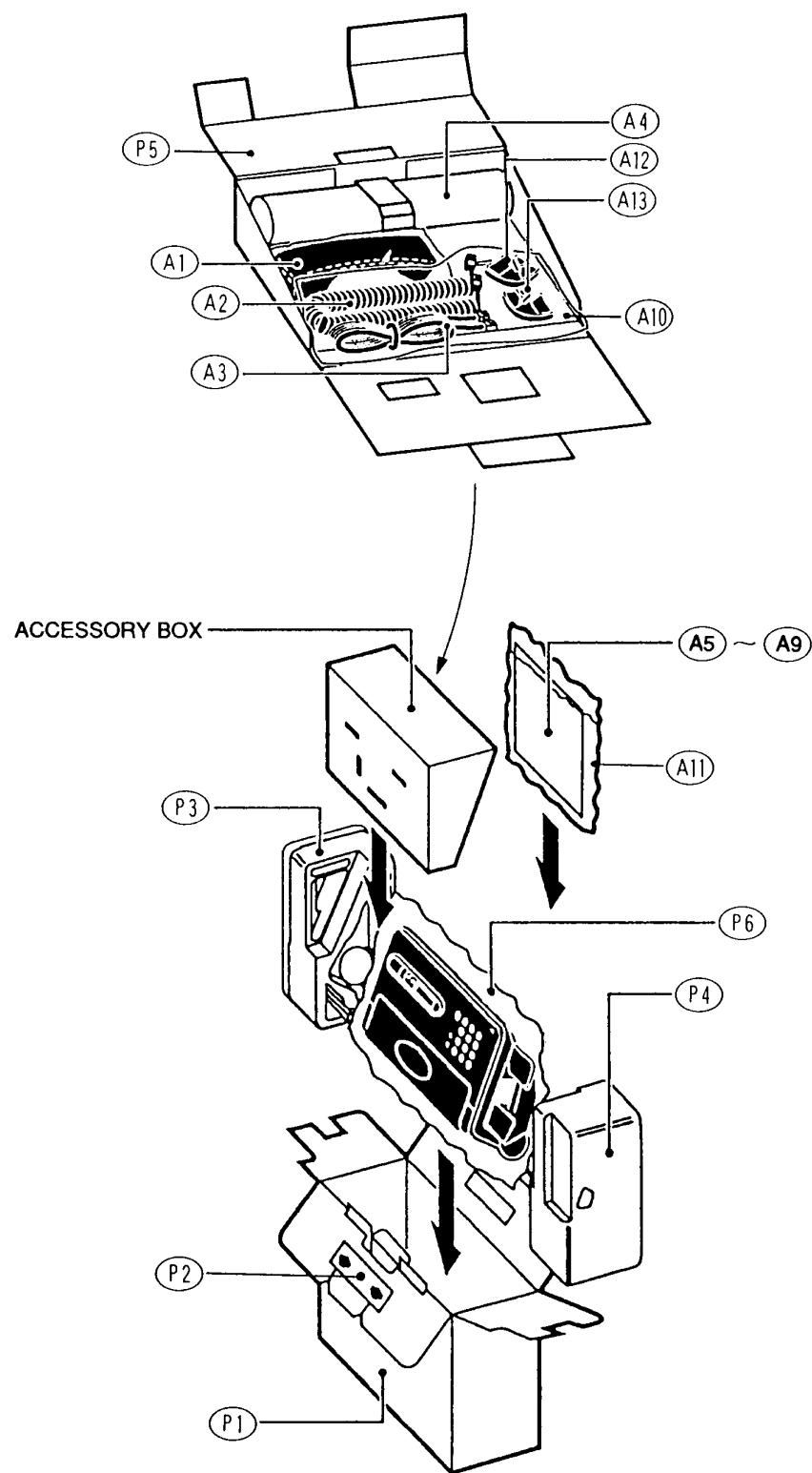




**Note:**

Be careful not to move the lens, mirror, or the CCD board, etc. Otherwise, the CCD will be out of adjustment.

## ACCESSORIES AND PACKING MATERIALS



This Replacement List is Taiwan version only.  
Refer to the simplified manual (cover) for other areas.

REPLACEMENT PARTS LIST			Model KX-F76
Notes:			
1. RTL (Retention Time Limited) The marking (RTL) Indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.			
2. Important safety notice Components identified by the  mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.			
3. The S mark indicates service standard parts and may differ from production parts.			
4. RESISTORS & CAPACITORS Unless otherwise specified, All resistors are in ohms (Ω) K=1000Ω, M=1000KΩ All capacitors are in MICRO FARADS(μF) P=μF			
*Type & Wattage of Resistor Type			
ERC: Solid	ERX: Metal Film	PQ4R: Carbon	
ERD: Carbon	ERG: Metal Oxide	ERS: Fusible Resistor	
PQRD: Chip	ERO: Metal Film	ERF: Cement Resistor	
Wattage			
10, 16: 1/8W	14, 25: 1/4W	12: 1/2W	1: 1W 2: 2W 3: 3W
Type			
ECCF: Semi-Conductor	ECCD, ECKD, ECBT, PQCBC: Ceramic		
ECQS: Styrol	ECQE, ECQV, ECQG: Polyester		
PQCUV: Chip	ECEA, ECSZ: Electrolytic		
ECOMS: Mica	ECQP: Polypropylene		
Voltage			
ECQ Type	ECQG ECQV Type	ECSZ Type	Others
1H: 50V	05: 50V	0F: 3.15V	0J: 6.3V 1V: 35V
2A: 100V	1: 100V	1A: 10V	1A: 10V 50, 1H: 50V
2E: 250V	2: 200V	1V: 35V	1C: 16V 1J: 63V
2H: 500V		0J: 6.3V	1E, 25: 25V 2A: 100V
Ref. No.	Part No.	Part Name & Description	Pcs
CABINET, MECHANICAL AND ELECTRICAL PARTS			
1	PQKE114W	DOCUMENT TRAY	1
2	PQYM1F76XTW	UPPER CABINET ASS'Y	1
2-1	PQHR9711Y	COVER, GUIDE	1
2-2	PQHR9710Z	GUIDE-R	1
2-3	PQHR9709Z	GUIDE-L	1
2-4	PQDG5078Z	GEAR	1
3	PQUV126W	COVER, OPERATION PANEL	1
4	PQUP10098Z	FLEXIBLE CABLE	1
5	PQHR9729Y	PLASTIC PARTS, BUTTON	1
6	PQBCX250Z	BUTTON, FUNCTION	1
7	PQBC334T	BUTTON, START	1
8	PQBC335T	BUTTON, STOP	1
9	PQYGF76XTW	OPERATION PANEL ASS'Y	1
10	PQHM174Z	ARM-R	1
11	PQHM175Z	ARM-L	1
12	PQUS10002Y	SPRING, ARM	1
13	PQBCX10004Z	BUTTON, DIAL	1
14	PQBCX10007Z	BUTTON, PAUSE/REDIAL	1
15	PQBC10019Z	BUTTON, MONITOR	1
16	PQGP10006Z	COVER, LED	3
17	PQGK10004Y	ORNAMENT	1
18	PQNW368Y	WASHER	1
19	PQQT10214Z	CAUTION LABEL-A	1
30	PQUV125Y	COVER, RECORDING PAPER	1
31	PQMD2024X	ANGLE	1
32	PQDN32Z	ROLLER, RECORDING PAPER FEED	1
33	PQHR9718Z	SPACER, RECORDING PAPER ROLLER	2
34	PQDG5075Z	GEAR	1
35	PQMD2029X	ANGLE, BOTTOM	1
36	PQYFF76XTW	LOWER CABINET ASS'Y	1
37	PQWAF76XTW	POWER CORD ASS'Y	1
38	PQYTKXPW1	KNOB, RECORDING PAPER COVER OPEN	1
39	PQBD183Y	KNOB, FRONT LID OPEN	S 1
40	PQGP155Z	PANEL, RECORDING PAPER	1
41	PQGT10246Z	NAME PLATE	1

Ref. No.	Part No.	Part Name & Description	Pcs
42	PQQT10213Z	CAUTION LABEL-B	1
43	PQHP506Z	CARD, TEL.	1
44	PQHR518Z	TRANSPARENT PLATE, TEL. CARD	1
45	PQAS5P05Y	SPEAKER	1
46	PQJE10009Z	FLAT CABLE, 9P	1
47	PQJE10010Z	FLAT CABLE, 13P	1
48	PQJS2L103Z	CONNECTOR, 2P	1
49	PQHR10044Z	COVER	1
50	PQMH10006Z	ANGLE	1
51	PQBD10005Z	KNOB, VOLUME	1
53	PQKB10005Z	KNOB, HOOK	1
54	PQKM10010Z	HANDSET CRADLE, UPPER	1
55	PQYM2F76XTW	HANDSET CRADLE ASS'Y, LOWER	1
60	PQZU1KXPW1	METAL PLATE, RECORDING PAPER COVER LOCK	1
61	PQZLKXPW1	LEVER, SENSOR	1
62	PQJS9M44Y	CONNECTOR, 9P	1
63	PQJS10M48Z	CONNECTOR, 10P	1
64	PQWEKXPW1	THERMAL HEAD ASS'Y	1
65	PQUS299Z	SPRING, THERMAL HEAD	1
66	PQLB1E1	CORE	2
67	PQZU2KXPW1	ANGLE, RECORDING COVER LOCK	1
68	PQZEKXPW1	GEAR CHASSIS ASS'Y	1
69	PQJS12R24Y	CONNECTOR, 12P	1
70	PQJS4M33Z	CONNECTOR, 4P	1
71	XUC25FY	RETAINING RING	1
72	PQUS10004Z	SPRING	1
73	PQMX10003Z	INSULATOR SHEET	1
74	PQJE10008Z	FLAT CABLE, 18P	1
75	PQNP10001Z	WASHER	1
76	PQHR10004Z	SPACER, IMAGE BOARD	1
77	PQHR10006Z	BAND, LEAD WIRE	1
78	PQJE10011Z	FLAT CABLE, 8P	1
79	PQJE10004Z	FLAT CABLE, 10P	2
80	PQJS06R23Z	CONNECTOR, 6P	1
CDD UNIT PARTS			
300	PQSGX017Y	CDD UNIT ASSY	1
300-1	PQDG5074Z	GEAR	1
300-2	PQDN31Z	ROLLER, DOCUMENT FEED	1
300-3	PQHR9713Z	COVER	1
300-4	PQHR10040Z	SPACER, DOCUMENT FEED ROLLER	2
300-5	PQHR9719Z	LEVER, DOCUMENT DETECT	2
300-6	PQUS315Z	SPRING, SENSOR LEVER	2
300-7	PQUS299Z	SPRING	1
300-8	PQOG4Z	GLASS	1
ACCESSORIES AND PACKING MATERIALS			
A1	PQJX2PDAG01Y	HANDSET	1
A2	PQJA212N	HANDSET CORD	1
A3	PQJA59V	TEL. CORD	1
A4	PQPH419Z	RECORDING PAPER	1
A5	PQQX10121Z	INSTRUCTION BOOK	1
A6	PQQW10127Z	MARK SHEET-1	1
A7	PQQW10128Z	MARK SHEET-2	1
A8	PQQW10129Z	MARK SHEET-3	1
A9	PQQW10130Z	MARK SHEET-4	1
A10	XZB30X25A04	PROTECTION COVER (ACCESSORIES)	1
A11	XZB25X34A04	PROTECTION COVER (DOCUMENTS)	1
A12	PQHR9723Z	PARTING PLATE-A	1
A13	PQHR9724Z	PARTING PLATE-B	1
P1	PQPK10151Z	GIFT BOX	1
P2	PQPN935Z	HANDLE	1
P3	PQPN10038Z	CUSHION-L	1
P4	PQPN10039Z	CUSHION-R	1
P5	PQPN10065Z	ACCESSORY BOX	1
P6	PQPH79Z	PROTECTION COVER (UNIT)	1

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
<b>MAIN BOARD PARTS</b>							
PCB1	PQWP1F76XTW	MAIN BOARD ASSY (RTL)	1	SW1	PQSS3B10W	(SWITCHES)	1
IC1	PQVIR96MFXS	(ICs)		SW2	PQSS2A27W	SWITCH, RINGER	1
IC2	PQVIZ8400LBV	IC	1	SW3	PQSS2A27W	SWITCH, PROGRAM	1
IC3	PQWF76XTW	IC	1	T1	ETA14Y85AY	(TRANSFORMERS)	1
IC4, 5	PQVICX5864MC	IC	S 2	T2	PQLT8F5A	COMMUNICATION TRANSFORMER	1
IC6	PQVIE58R55F	IC	1			DTMF TRANSFORMER	1
IC7	PQVIRIP5C62	IC	1	X1	PQVCJ2400N9Z	(CRYSTAL OSCILLATORS &	
IC8	PQVIM5195BL	IC	1	X2	PQVCJ1600N9Z	CERAMIC FILTER)	1
IC9	PQVITC4053BF	IC	1	X3	PQVCL3276N6Z	CRYSTAL OSCILLATOR	1
IC10, 11, 12	PQVINJM082BM	IC	3	X4	PQVBT4.19G2	CERAMIC FILTER	1
IC14	PQVIBA12003	IC	1			(CAPACITORS)	
IC15	PQVI672191F	IC	S 1	C1	ECQE2E224JZ	0.22	1
IC16	PQVINJM2901M	IC	1	C2	ECEA1HN3R3S	3.3	1
IC17	PQVIMT3274AE	IC	1	C3	ECEA1HU3R3	3.3	1
IC19	PQVIPD7HU04S	IC	1	C4	ECEA1HU100	10	1
IC20	PQVIPD7H245G	IC	S 1	C5	PQCUV1C683MD	0.068	1
IC21-26	PQVINJM4558M	IC	6	C6	PQCUV1H151JC	150P	1
IC27	PQVITC4053BF	IC	1	C9	PQCUV1H221JC	220P	1
		(TRANSISTORS)					
Q1	2SB1322	TRANSISTOR(SI)	S 1	C10	PQCUV1E104MD	0.1	1
Q2, 21	2SB1218A	TRANSISTOR(SI)	S 2	C11	PQCUV1H101JC	100P	1
Q22, 23, 24	PQVTDTC143E	TRANSISTOR(SI)	3	C12	PQCUV1E104MD	0.1	1
Q25	2SB1218A	TRANSISTOR(SI)	S 1	C13	PQCUV1E104MD	0.1	1
Q26-31	2SD1819A	TRANSISTOR(SI)	S 6	C14	PQCUV1H151JC	150P	1
Q32, 33	2SB1322	TRANSISTOR(SI)	S 2	C15	PQCUV1E104MD	0.1	1
Q34, 36-39	PQVTDTC143E	TRANSISTOR(SI)	5	C16	PQCUV1H101JC	100P	1
Q40	2SB1322	TRANSISTOR(SI)	S 1	C21	PQCUV1E224MD	0.22	1
Q42, 43	2SD1994A	TRANSISTOR(SI)	2	C22	PQCUV1H331JC	330P	1
Q50	PQVTDTC143E	TRANSISTOR(SI)	1	C23	PQCUV1E104MD	0.1	1
Q50A	2SC2235	TRANSISTOR(SI)	1	C24	PQCUV1H101JC	100P	1
Q51	PQVTDTA114YU	TRANSISTOR(SI)	1	C25	PQCUV1H102J	0.001	1
Q53, 54	2SD1819A	TRANSISTOR(SI)	S 2	C26	ECEA1HN3R3S	3.3	1
		(DIODES)					
D1	PQVDSSV3SS	DIODE(SI)	1	C51	PQCUV1E104MD	0.1	1
D2	RLS71	DIODE(SI)	1	C52	PQCUV1H103KB	0.01	1
D3	PQVDHZS2B1	DIODE(SI)	1	C53	PQCUV1H103KB	0.01	1
D5, 6	RLS71	DIODE(SI)	2	C54	PQCUV1E104MD	0.1	1
D8	PQVDHZS2B1	DIODE(SI)	1	C56	PQCUV1E104MD	0.1	1
D21	MA700A	DIODE(SI)	1	C57	PQCUV1E104MD	0.1	1
D22	MA4051	DIODE(SI)	1	C58	PQCUV1E104MD	0.1	1
D23	RLS71	DIODE(SI)	S 1	C59	PQCUV1E104MD	0.1	1
D24	PQVDHZS3A1	DIODE(SI)	1	C60	PQCUV1E104MD	0.1	1
D25-29	RLS71	DIODE(SI)	5	C61	PQCUV1H120JC	12P	1
D30	1SS147	DIODE(SI)	1	C62	PQCUV1H120JC	12P	1
D31	MA7200	DIODE(SI)	1	C63	PQCUV1H180JC	18P	1
D34-37	RLS71	DIODE(SI)	4	C64	PQCUV1H180JC	18P	1
D38	MA723	DIODE(SI)	1	C65	PQCUV1E104MD	0.1	1
D41	PQVDHZS2B1	DIODE(SI)	1	C66	ECEA1HU4R7	4.7	1
D43	RLS71	DIODE(SI)	1	C67	ECUV1H334ZF	0.33	S 1
D44, 45	MA723	DIODE(SI)	2	C68	PQCUV1E104MD	0.1	1
D51	PQVDS1YB40F1	DIODE(SI)	1	C69	PQCUV1E104MD	0.1	1
		(PHOTO ELECTRIC TRANSDUCERS)					
PC1	PQVIPC814K	PHOTO COUPLER	1	C70	ECUV1H334ZF	0.33	S 1
PC2, 3	PQVIPC817CD	PHOTO COUPLER	S 2	C72	ECEB0JU220	22	1
		(RELAYS)		C73	ECUV1H334ZF	0.33	S 1
RLY1	PQSL76Z	RELAY	S 1	C74	PQCUV1H102J	0.001	1
RLY2	PQSL112Z	RELAY	1	C75	PQCUV1E104MD	0.1	1
				C76	PQCUV1E104MD	0.1	1
				C77	PQCUV1H102J	0.001	1
				C78	PQCUV1H331JC	330P	1
				C79	PQCUV1E104MD	0.1	1
				C80	PQCUV1E104MD	0.1	1
				C81	PQCUV1H103KB	0.01	1
				C82	PQCUV1H103KB	0.01	1

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Value	Pcs
C83	PQCUV1E104MD	0.1	1	R1	ERDS1TJ473	(RESISTORS)	
C85	PQCUV1H330JC	33P	1	R3	ERDS2TJ120	47K	1
C86	PQCUV1H180JC	18P	1	R4	PQ4R10XJ103	12	1
C87	PQCUV1E473MD	0.047	1	R5	PQ4R10XJ103	10K	1
C88	PQCUV1E104MD	0.1	1	R6	PQ4R10XJ683	10K	1
C89	ECEA1EU470	47	S 1	R7	PQ4R10XJ561	68K	1
C90	PQCUV1E104MD	0.1	1	R8	PQ4R10XJ682	560	1
C91	PQCUV1E104MD	0.1	1	R9	ERDS2TJ560	6.8K	1
C92	PQCUV1E104MD	0.1	1	R10	PQ4R10XJ103	56	1
C93	PQCUV1E104MD	0.1	1	R11	PQ4R10XJ473	100K	1
C94	PQCUV1H103KB	0.01	1	R12	PQ4R10XJ124	47K	1
C95	PQCUV1E104MD	0.1	1	R13	PQ4R10XJ104	10K	1
C96	PQCUV1E104MD	0.1	1	R14	PQ4R10XJ124	100K	1
C97	PQCUV1E104MD	0.1	1	R15	PQ4R10XJ104	120K	1
C98	PQCUV1E104MD	0.1	1	R16	PQ4R10XJ104	100K	1
C99	PQCUV1E104MD	0.1	1	R17	PQ4R10XJ104	100K	1
C100	PQCUV1H101JC	100P	1	R18	PQ4R10XJ124	100K	1
C101	PQCUV1E104MD	0.1	1	R19	PQ4R10XJ122	120K	1
C102	PQCUV1E104MD	0.1	1	R20	PQ4R10XJ223	1.2K	1
C103	PQCUV1H101JC	100P	1	R21	PQ4R10XJ473	22K	1
C104	PQCUV1H103KB	0.01	1	R22	PQ4R10XJ104	47K	1
C105	ECEA1EU101	100	S 1	R23	PQ4R10XJ682	560K	1
C106	PQCUV1H682KB	0.0068	1	R24	PQ4R10XJ394	100K	1
C107	PQCUV1E104MD	0.1	1	R25	PQ4R10XJ124	390K	1
C108	PQCUV1E104MD	0.1	1	R26	PQ4R10XJ104	47K	1
C109	PQCUV1E104MD	0.1	1	R27	PQ4R10XJ223	6.8K	1
C111, 115, 116	PQCUV1E104MD	0.1	3	R29	PQ4R10XJ682	1	1
C118	ECEA1VU221	220	1	R30	PQ4R10XJ473	22K	1
C119	ECEA1EU101	100	S 1	R31	PQ4R10XJ104	680K	1
C120	ECEA1AU221	220	S 1	R32	PQ4R10XJ684	56K	1
C121	ECEA1EU101	100	S 1	R33	PQ4R10XJ222	100K	1
C122	PQCUV1E104MD	0.1	1	R34	PQ4R10XJ184	2.2K	1
C123	PQCUV1E104MD	0.1	1	R35	PQ4R10XJ394	180K	1
C124	PQCUV1E104MD	0.1	1	R36	PQ4R10XJ124	330	1
C125, 127	PQCUV1E104MD	0.1	2	R37	PQ4R10XJ561	47K	1
C131	PQCUV1E224MD	0.22	1	R43,	PQ4R10XJ104	10K	1
C132	PQCUV1C683MD	0.068	1	R44, 45, 46	PQ4R10XJ103	100K	3
C136	PQCUV1E104MD	0.1	1	R51	PQ4R10XJ475	10K	1
C137	PQCUV1E104MD	0.1	1	R52	PQ4R10XJ103	4.7M	1
C138	PQCUV1E104MD	0.1	1	R53	PQ4R10XJ331	0	1
C139	PQCUV1E104MD	0.1	1	R55	PQ4R10XJ000	330	1
C140	PQCUV1E104MD	0.1	1	R56	PQ4R10XJ222	4.7K	1
C155	PQCUV1H681JC	680P	1	R57	PQ4R10XJ472	2.2K	1
C156	PQCUV1E224MD	0.22	1	R58	PQ4R10XJ472	4.7K	1
C157	PQCUV1E104MD	0.1	1	R59	PQ4R10XJ103	4.7K	1
C158	PQCUV1E104MD	0.1	1	R60	PQ4R10XJ103	10K	1
C159	PQCUV1E104MD	0.1	1	R61	PQ4R10XJ473	12	1
C162	PQCUV1H103KB	0.01	1	R62	PQ4R10XJ104	86.6K	1
C163	PQCUV1E104MD	0.1	1	R63	ERD25TJ120	15P	1
C164	PQCUV1E104MD	0.1	1	R64	ER016CKF8662	3.3K	1
C165	PQCUV1H150JC	15P	1	R65	PQ4R10XJ683	56K	1
C166	PQCUV1E104MD	0.1	1	R66	PQ4R10XJ275	4.7M	1
C167	PQCUV1E473MD	0.047	1	R67	ER016CKF8662	2.2K	1
C172	PQCUV1H103KB	0.01	1	R68	PQ4R10XJ272	68K	1
C177	PQCUV1H332KB	0.0033	1	R69	PQ4R10XJ103	2.2K	1
C178	PQCUV1H103KB	0.01	1	R70	ER016CKF1002	150K	1
C200	PQCUV1E104MD	0.1	1	R71	ER016CKF3652	36.5K	1
C600	ECEA1HU3R3	3.3	1	R72	PQ4R10XJ332	3.3K	1
C601	ECEA1HU100	10	1	R73	PQ4R10XJ103	3.3K	1
C1001	ECSTCM0JD686	68	1	R74	ERD25TJ271	270	1
				R75	PQ4R10XJ222	2.2K	1
				R76	PQ4R10XJ561	4.7K	1
				R77	PQ4R10XJ222	5.6K	1
				R78	PQ4R10XJ472	2.2K	1
				R79	PQ4R10XJ154	1.5K	1
				R80	PQ4R10XJ152	150K	1
				R81	PQ4R10XJ000	6.8K	1
				R82	PQ4R10XJ223	22K	1

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Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R83	PQ4R10XJ682	6.8K	1	R164	PQ4R10XJ101	100	1
R84	PQ4R10XJ471	470	1	R165	PQ4R10XJ682	6.8K	1
R85	PQ4R10XJ562	5.6K	1	R166	PQ4R10XJ103	10K	1
R86	PQ4R10XJ472	4.7K	1	R167	PQ4R10XJ000	0	1
R87	PQ4R10XJ103	10K	1	R171	PQ4R10XJ473	47K	1
R88	PQ4R10XJ332	3.3K	1	R172	PQ4R10XJ000	0	1
R89	PQ4R10XJ182	1.8K	1	R174	PQ4R10XJ473	47K	1
R90	PQ4R10XJ223	22K	1	R179	PQ4R10XJ331	330	1
R91	PQ4R10XJ331	330	1	R180	PQ4R10XJ331	330	1
R92	PQ4R10XJ331	330	1	R181	PQ4R10XJ331	330	1
R93	PQ4R10XJ331	330	1	R182	PQ4R10XJ562	5.6K	1
R94	PQ4R10XJ331	330	1	R183	PQ4R10XJ153	15K	1
R95	PQ4R10XJ103	10K	1	R185	PQ4R10XJ122	1.2K	1
R96	PQ4R10XJ332	3.3K	1	R186	PQ4R10XJ471	470	1
R97	PQ4R10XJ332	3.3K	1	R187	PQ4R10XJ471	470	1
R98	ERDS1TJ122	1.2K	1	R189	ERDS1TJ330	33	1
R99	PQ4R10XJ222	2.2K	1	R190	PQ4R18XJ152	1.5K	1
R100	ERD25TJ331	330	1	R191	PQ4R18XJ473	47K	1
R101	PQ4R10XJ332	3.3K	1	R192	PQ4R10XJ564	560K	1
R102	PQ4R10XJ682	6.8K	1	R194	PQ4R10XJ331	330	1
R103	PQ4R10XJ472	4.7K	1	R197	PQ4R10XJ473	47K	1
R104	PQ4R10XJ103	10K	1	R198	PQ4R10XJ104	100K	1
R105	PQ4R10XJ101	100	1	R199	PQ4R10XJ331	330	1
R106	PQ4R10XJ222	2.2K	1	R201	PQ4R10XJ331	330	1
R107	PQ4R10XJ182	1.8K	1	R202	PQ4R10XJ331	330	1
R108	ER016CKF1201	1.2K	1	R203	PQ4R10XJ331	330	1
R109	PQ4R10XJ223	22K	1	R206	PQ4R10XJ223	22K	1
R110	PQ4R10XJ103	10K	1	R207	PQ4R10XJ102	1K	1
R111	PQ4R10XJ103	10K	1	R208	PQ4R10XJ334	330K	1
R112	ER016CKF1801	1.8K	1	R209	PQ4R10XJ222	2.2K	1
R113	PQ4R10XJ102	1K	1	R212	PQ4R10XJ103	10K	1
R114	PQ4R10XJ101	100	1	R213	PQ4R10XJ331	330	1
R115	PQ4R10XJ151	150	1	R214	PQ4R18XJ000	0	1
R116	PQ4R10XJ272	2.7K	1	R215	PQ4R10XJ471	470	1
R117	PQ4R10XJ272	2.7K	1	R216	PQLQR1ET	COIL	1
R118	ER016CKF1501	1.5K	1	R221	PQ4R10XJ564	560K	1
R119	PQ4R10XJ222	2.2K	1	R222	PQ4R10XJ272	2.7K	1
R120	ERDS1TJ222	2.2K	1	R223	PQ4R10XJ183	18K	1
R121	PQ4R10XJ102	1K	1	R225	PQ4R18XJ000	0	1
R122	ERDS1TJ222	2.2K	1	R236	PQ4R10XJ103	10K	1
R123	PQ4R10XJ103	10K	1	R237	PQ4R10XJ330	33	1
R124	PQ4R10XJ103	10K	1	R238	PQ4R10XJ330	33	1
R125	PQ4R10XJ681	680	1	R239	PQ4R10XJ471	470	1
R126	PQ4R10XJ103	10K	1	R240	PQ4R10XJ472	4.7K	1
R127	PQ4R10XJ103	10K	1	R241	PQ4R10XJ473	47K	1
R131	PQ4R10XJ473	47K	1	R242	PQ4R10XJ564	560K	1
R132	PQ4R10XJ473	47K	1	R500	PQ4R10XJ123	12K	1
R133	PQ4R10XJ473	47K	1	R501	PQ4R10XJ562	5.6K	1
R134	PQ4R10XJ473	47K	1	BA1	BR2032/1HF1	(BATTERY & CONNECTORS) LITHIUM BATTERY	1
R135	PQ4R10XJ563	56K	1	CN1	PQJP13A12Z	CONNECTOR, 13P	1
R136	PQ4R10XJ682	6.8K	1	CN2	PQJS23X59Z	CONNECTOR, 23P	1
R137	PQ4R10XJ563	56K	1	CN3	PQJP8G100Z	CONNECTOR, 8P	1
R138	PQ4R10XJ563	56K	1	CN4	PQJP4G91Z	CONNECTOR, 4P	1
R139	PQ4R10XJ682	6.8K	1	CN5	PQJP2D121Z	CONNECTOR, 2P	1
R140	PQ4R10XJ331	330	1	CN6	PQJP6D121Z	CONNECTOR, 6P	1
R141	PQ4R10XJ331	330	1	CN7	PQJP9G30Z	CONNECTOR, 9P	1
R142	PQ4R10XJ682	6.8K	1	CN8	PQJP7G90Z	CONNECTOR, 7P	1
R143	PQ4R10XJ563	56K	1	CN9	PQJP7G100Z	CONNECTOR, 7P	1
R144	PQ4R10XJ563	56K	1	CN10	PQJP2G100Z	CONNECTOR, 2P	1
R145	PQ4R10XJ682	6.8K	1	CN11	PQJS18R02Z	CONNECTOR, 18P	1
R151	PQ4R10XJ683	68K	1	CN501, 502	PQJS10A01Z	CONNECTOR, 10P	2
R154	PQ4R10XJ473	47K	1				
R157	PQ4R10XJ473	47K	1				
R158	PQ4R10XJ473	47K	1				
R159	PQ4R10XJ473	47K	1				
R160	PQ4R10XJ681	680	1				
R161	PQ4R10XJ121	120	1				
R162	PQ4R10XJ271	270	1				
R163	PQ4R10XJ181	180	1				

Ref. No.	Part No.	Part Name & Description	Pcs		Ref. No.	Part No.	Part Name & Description	Pcs
<b>OPERATION BOARD PARTS</b>								
PCB2	PQWP2F76XTW	OPERATION BOARD ASS'Y (RTL)	1		Q102	PQVTBB1A4A	TRANSISTOR(SI)	1
LED1	PQVDGL1D11E	(DIODES) LED	1		Q103	2SD1994A	TRANSISTOR(SI)	1
LED2	PQVDGL1E11C	LED	1		Q105	2SB1218A	TRANSISTOR(SI)	1
LED3	LN376GCPX	LED	1		Q106, 107	2SD1819A	TRANSISTOR(SI)	S 2
LED4	LN876RCPX	LED	1		Q108	PQVTBB1A4A	TRANSISTOR(SI)	1
LED5	PQVDGL1D11E	LED	1		Q109	PQVTDTC114YU	TRANSISTOR(SI)	1
			1		Q110, 111	2SD1819A	TRANSISTOR(SI)	S 2
PC201, 203 , 301, 303	PQVIP54506	(PHOTO ELECTRIC TRANSDUCERS) SENSOR,	S 4		Q201	2SD1994A	TRANSISTOR(SI)	1
SW1	EVQ22405K	(SWITCHES) SWITCH,	1		D1, 2	1SS131	(DIODES) DIODE(SI)	2
SW2	EVQ22405K	SWITCH,	1		D3	RLS71	DIODE(SI)	1
SW3	EVQ22405K	SWITCH,	1		D4	1SS131	DIODE(SI)	1
SW4	EVQ22405K	SWITCH,	1		D5, 10	RLS71	DIODE(SI)	2
SW5	EVQ22405K	SWITCH,	1		D11	MA4300	DIODE(SI)	1
SW6	PQSH1A43Z	SWITCH,	1		D12	MA4150	DIODE(SI)	1
SW7	PQSH1A43Z	SWITCH,	1		D14	PQVD0R5G4B42	DIODE(SI)	1
SW8	PQSH1A43Z	SWITCH,	1		D15	RLS71	DIODE(SI)	1
SW9	PQSH1A43Z	SWITCH,	1		D105, 106, 107	RLS71	DIODE(SI)	4
SW10	PQSH1A43Z	SWITCH,	1		, 110			
SW11	PQSH1A43Z	SWITCH,	1		D111	MA700A	DIODE(SI)	1
SW12	PQSH1A43Z	SWITCH,	1		D112	PQVDMTZ4R7	DIODE(SI)	1
SW13	PQSH1A43Z	SWITCH,	1		D113, 120, 121	RLS71	DIODE(SI)	3
SW14	PQSH1A43Z	SWITCH,	1		D124	1SS131	DIODE(SI)	1
SW15	EVQ22405K	SWITCH,	1		D126	PQVDMTZ5R6	DIODE(SI)	1
SW16	PQSH1A43Z	SWITCH,	1		D201	RLS71	DIODE(SI)	1
SW17	PQSH1A43Z	SWITCH,	1		D202	PQVDRLZ5R6	DIODE(SI)	1
SW18	PQSH1A43Z	SWITCH,	1		D203	RLS71	DIODE(SI)	1
SW19	EVQ22405K	SWITCH,	1		D204	PQVDAK04A	DIODE(SI)	1
CN1, 2	PQJS7R40Z	(CONNECTORS) CONNECTOR, 7P	2		L1, 2	PQLE106	(COILS) COIL	2
CN101	PQJS23X62Z	CONNECTOR, 23P	1		PC1	PQVIPC357C	(PHOTO ELECTRIC TRANSDUCERS) PHOTO COUPLER	1
CN102	PQJS12X62Z	CONNECTOR, 12P	1		PC101, 102, 103 , 105, 106, 107 , 108, 111, 112 , 113	PQVIPC357C	PHOTO COUPLER	10
CN103	PQJP14G105Z	CONNECTOR, 14P	1		RLY3	PQSL29Z	(RELAY) RELAY	1
CN104, 105	PQJP2G105Z	CONNECTOR, 2P	2		SW1	PQSS2A27W	(SWITCHES) SWITCH, TONE/PULSE	1
					SW2	PQSS2A27W	SWITCH, VOLUME	1
					SW3	ESE14A211	SWITCH, HOOK	1
PCB3	PQWP3F76XTW	TELEPHONE BOARD PARTS (RTL)	1		T1	PQLT2D2A	(TRANSFORMERS) TRANSFORMER	1
			1		T2	PQLT8D2A	TRANSFORMER	1
IC1	PQVIBA8205F	(ICs) IC	1		T201	PQLT9Z7A	TRANSFORMER	1
IC2	PQVIMC34119M	IC	1		VR1	PQVAL204B24A	(VARIABLE RESISTOR) VOLUME CONTROL, 20KΩ (B)	S 1
IC3	PQVINJM4558M	IC	1		X1	PQVBT3.58G8	(CERAMIC FILTER) CERAMIC FILTER	1
IC101	PQVILC73721M	IC	1		C1	ECQE2105KF	(CAPACITORS)	1
IC102	PQVIBA6566F	IC	1		C2	ECEA1HU220	1	1
IC103	PQVISV7860SG	IC	1		C4	PQCUV1H682KB	22	1
Q3	2SA1626	(TRANSISTORS) TRANSISTOR(SI)	1		C5, 6	ECEA1HKS010	0.0068	2
Q4	2SD662B	TRANSISTOR(SI)	1		C7	PQCUV1H821JC	1	1
Q5	PQVTDTC143E	TRANSISTOR(SI)	1		C11	PQCUV1C224ZF	820P	1
Q6	PQVTDTC114YU	TRANSISTOR(SI)	1		C12	PQCUV1E104MD	0.22	1
Q11	2SD1819A	TRANSISTOR(SI)	S 1		C13	PQCUV1H101JC	0.1	1
Q12	PQVTDTC143E	TRANSISTOR(SI)	1				100P	1
Q13, 14	2SD1819A	TRANSISTOR(SI)	S 2					
Q15	PQVTDTC143E	TRANSISTOR(SI)	1					

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Ref. No.	Part No.	Value	Pcs
C14	PQCUV1E104MD	0.1	1
C15	PQCUV1H272KB	0.0027	1
C16	ECEA1CKS100	10	1
C17, 18	ECEA1AU101	100	S 2
C20	ECEA1HKS010	1	1
C21	PQCUV1H102J	0.001	1
C22	ECEA1HKS22	0.22	1
C23	PQCUV1E104MD	0.1	1
C25	PQCUV1C224ZF	0.22	1
C26	PQCUV1E104MD	0.1	1
C27	PQCUV1E104MD	0.1	1
C30	PQCUV1H332KB	0.0033	1
C31	PQCUV1H103KB	0.01	1
C102	ECEA1HKS47	0.47	1
C103	PQCUV1C823KB	0.082	1
C104	PQCUV1E153MD	0.015	1
C105	PQCUV1H682KB	0.0068	1
C106	PQCUV1H471JC	470P	1
C107	PQCUV1E333MD	0.033	1
C108	PQCUV1E333MD	0.033	1
C109	PQCUV1H471JC	470P	1
C110	ECEA1CKS220	22	1
C111	ECEA1CKS100	10	1
C112, 113	ECEA1HKS4R7	4.7	S 2
C114	PQCUV1H103KB	0.01	1
C121, 122	ECEA1HKS4R7	4.7	S 2
C123	ECEA1AU221	220	S 1
C126	ECEA1HKS010	1	1
C131	PQCUV1H103KB	0.01	1
C132	PQCUV1E104MD	0.1	1
C133	PQCUV1E104MD	0.1	1
C135	PQCUV1E104MD	0.1	1
C136	PQCUV1E104MD	0.1	1
C139	PQCUV1H103KB	0.01	1
C140	PQCUV1H101JC	100P	1
C141	PQCUV1H103KB	0.01	1
C143	ECEA1AU221	220	S 1
C145	ECEA1HKS4R7	4.7	S 1
C147	PQCUV1H183MD	0.018	S 1
C150	PQCUV1H103KB	0.01	1
C151	PQCUV1H103KB	0.01	1
C152	PQCUV1H471JC	470P	1
C155-162	PQCUV1H101JC	100P	8
C163	PQCUV1C224ZF	0.22	1
C165	PQCUV1E104MD	0.1	1
C166	PQCUV1H102J	0.001	1
C167	PQCUV1H682KB	0.0068	1
C201	ECEA1AU101	100	S 1
C202, 203, 204	PQCUV1H103KB	0.01	3
C205	ECEA1HKS4R7	4.7	S 1
C206, 209	PQCUV1H105JC	1	2
C210	PQCUV1E104MD	0.1	1
C210A	ECST1AX106	10	1
C350	PQCUV1E104MD	0.1	1
(RESISTORS)			
J102	PQ4R10XJ000	0	2
J103	PQ4R18XJ000	0	1
R1	ERDS1TJ622	6.2K	1
R2	PQ4R10XJ102	1K	1
R3	PQ4R10XJ000	0	1
R4	PQ4R10XJ123	12K	1
R5	PQ4R10XJ334	330K	1
R6	PQ4R10XJ184	180K	1

Ref. No.	Part No.	Value	Pcs
R7	PQ4R10XJ393	39K	1
R8	PQ4R10XJ562	5.6K	1
R9	PQ4R10XJ000	0	1
R10	PQ4R10XJ104	100K	1
R11	PQ4R10XJ105	1M	1
R12	PQ4R10XJ472	4.7K	1
R14	PQ4R10XJ683	68K	1
R15	PQ4R10XJ564	560K	1
R17	PQ4R10XJ683	68K	1
R18	PQ4R10XJ472	4.7K	1
R20	PQ4R10XJ182	1.8K	1
R22	PQ4R10XJ222	2.2K	1
R23	PQ4R10XJ102	1K	1
R24	PQ4R10XJ103	10K	1
R25	PQ4R10XJ821	820	1
R26	PQ4R10XJ821	820	1
R27	PQ4R10XJ562	5.6K	1
R28	PQ4R10XJ223	22K	1
R30	PQ4R10XJ473	47K	1
R31	PQ4R10XJ473	47K	1
R35	PQ4R10XJ474	470K	1
R36	PQ4R10XJ470	47	1
R37	PQ4R10XJ334	330K	1
R40	PQ4R10XJ103	10K	1
R41	PQ4R10XJ000	0	1
R42	PQ4R10XJ103	10K	1
R43	PQ4R10XJ103	10K	1
R45	PQ4R10XJ103	10K	1
R48	PQ4R10XJ101	100	1
R49	PQ4R10XJ104	100K	1
R50	PQ4R10XJ000	0	1
R51	PQ4R10XJ102	1K	1
R52	PQ4R10XJ000	0	1
R53	PQ4R10XJ473	47K	1
R102	PQ4R10XJ222	2.2K	1
R103	PQ4R10XJ102	1K	1
R104	PQ4R10XJ470	47	1
R105	PQ4R10XJ471	470	1
R106	PQ4R10XJ103	10K	1
R109, 110		PQ4R10XJ153	15K
R111	PQ4R10XJ204	200K	1
R112	PQ4R10XJ473	47K	1
R113	PQ4R10XJ222	2.2K	1
R114	ERDS1TJ560	56	1
R115	PQ4R10XJ103	10K	1
R118	PQ4R10XJ222	2.2K	1
R122	PQ4R10XJ271	270	1
R123	PQ4R10XJ000	0	1
R125	PQ4R10XJ104	100K	1
R126	PQ4R10XJ000	0	1
R127	PQ4R10XJ155	1.5M	1
R128	PQ4R10XJ155	1.5M	1
R129, 130		PQ4R10XJ104	100K
R131	PQ4R10XJ681	680	1
R132	PQ4R10XJ473	47K	1
R133	PQ4R10XJ222	2.2K	1
R135	PQ4R10XJ104	100K	1
R136	PQ4R10XJ472	4.7K	1
R137	PQ4R10XJ000	0	1
R139	PQ4R10XJ224	220K	1
R140	PQ4R10XJ472	4.7K	1
R141	PQ4R10XJ103	10K	1
R142	PQ4R10XJ472	4.7K	1
R143, 144, 145		PQ4R10XJ104	100K
R146, 147	PQ4R10XJ682	6.8K	2
R148, 152		PQ4R10XJ000	0

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs				
IMAGE BOARD PARTS											
R153	PQ4R10XJ472	4.7K	1	PCB4	PQWP8PW1TNL	IMAGE BOARD ASS'Y (RTL)	1				
R154	PQ4R10XJ000	0	1	IC900	PQVICX5864MC	(ICs)					
R155	PQ4R10XJ824	820K	1	IC901	PQVI09JN003A	IC	S 1				
R156	PQ4R10XJ104	100K	1	IC902	PQVISN7H244S	IC	S 1				
R157	PQ4R10XJ564	560K	1	IC903	PQVISN7H373S	IC	S 1				
R158	PQ4R10XJ271	270	1	IC904	PQVILC89066M	IC	1				
R159	PQ4R10XJ472	4.7K	1	IC905	PQVITC7H404F	IC	1				
R161	PQ4R10XJ682	6.8K	1	IC908	PQVITC7H100F	IC	S 1				
R163	PQ4R10XJ682	6.8K	1	IC909	PQVIPD7HU04S	IC	1				
R164	PQ4R10XJ682	6.8K	1	COMPONENTS COMBINATIONS							
R166	PQ4R10XJ104	100K	1	RA901	EXBF7E473JYV	RESISTOR ARRAY	1				
R167	PQ4R10XJ104	100K	1	RA902	EXBF9E473JYV	RESISTOR ARRAY	1				
R168	PQ4R10XJ224	220K	1	C901	ECEA1VKS4R7	(CAPACITORS)					
R169	PQ4R10XJ224	220K	1	C903	PQCUV1H330JC	4.7	1				
R170	PQ4R10XJ152	1.5K	1	C904	PQCUV1H330JC	33P	1				
R172	PQ4R10XJ392	3.9K	1	C906-912	PQCUV1E104MD	33P	1				
R176	PQ4R10XJ102	1K	1	C914	PQCUV1H221JC	0.1	7				
R177	PQ4R10XJ102	1K	1	C915	PQCUV1E104MD	220P	1				
R178	PQ4R10XJ104	100K	1	C916	PQCUV1E104MD	0.1	1				
R179	PQ4R10XJ334	330K	1	CONNECTORS							
R180	PQ4R10XJ394	390K	1	R913	PQ4R10XJ102	(RESISTOR)					
R181	PQ4R10XJ103	10K	1			1K	1				
R182	PQ4R10XJ224	220K	1	CN901, 902	PQJS10R03Z	(CONNECTORS)					
R183	PQ4R10XJ104	100K	1	CN903	PQJS12X54Z	CONNECTOR, 10P	2				
R185	PQ4R10XJ224	220K	1	CN904	PQJS08R03Z	CONNECTOR, 12P	1				
R187	PQ4R10XJ224	220K	1	CONNECTORS							
R188	PQ4R10XJ104	100K	1	POWER SUPPLY BOARD PARTS							
R189, 190	PQ4R10XJ332	3.3K	2	PCB5	PQLP050Z	POWER SUPPLY BOARD ASS'Y (RTL)	1				
	PQ4R10XJ104	100K	1	IC401	PQVIM51977P	(ICs)					
	PQ4R10XJ333	33K	1	IC402	PQVIUPC1093J	IC	S 1				
	PQ4R10XJ682	6.8K	1	IC403	PQVINJ2360D	IC	S 1				
R191	PQ4R10XJ222	2.2K	1	IC404, 405	PQVITA7812AP	IC	S 2				
R194	PQ4R10XJ562	5.6K	1	TRANSISTORS							
R195	PQ4R10XJ102	1K	1	Q401	2SK1574	TRANSISTOR(SI)					
R196	PQ4R10XJ102	1K	1	Q404	PQVTDTG143XS	TRANSISTOR(SI)	1				
R197	PQ4R10XJ102	1K	1	Q405	2SJ176	TRANSISTOR(SI)	1				
HANDSET JACK				Q406	2SD1266	TRANSISTOR(SI)	1				
H/S JACK	PQJJ1TB18Z	(JACK, CONNECTORS & OTHER)	1	DIODES							
CN1	PQJS9X54Z	CONNECTOR, 9P	1	D401	PQVDD3SBA40S	DIODE(SI)					
CN2	PQJS13X54Z	CONNECTOR, 13P	1	D402	PQVD1JU41	DIODE(SI)	1				
CN3	PQJP2D70Y	CONNECTOR, 2P	1	D403	PQVD1GU42	DIODE(SI)	1				
CN4	PQJP06A14Z	CONNECTOR, 6P	1	D404	PQVD1GU42	DIODE(SI)	1				
CN101	PQJS9X54Z	CONNECTOR, 9P	1	D405	PQVDD10LC20U	DIODE(SI)	1				
CN102	PQJS13X54Z	CONNECTOR, 13P	1	D407	PQVD0R8DU41	DIODE(SI)	1				
CN103	PQJS18R02Z	CONNECTOR, 18P	1	D408	PQVD1GU42	DIODE(SI)	1				
CN104	PQJS08R02Z	CONNECTOR, 8P	1	D411	PQVDAK04	DIODE(SI)	1				
E1	PQHX10069Z	SHEET	1	ZD401	MA4270	DIODE(SI)	1				
				ZD402	MA4062	DIODE(SI)	1				
				F401	PQBA1C50NBKL	(FUSES)					
				F402	PQBA1K31NMA	FUSE					
						FUSE	1				
							1				

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
L401, 402	ELF18D290	(COILS)		R412	ERDS1TJ181	180	1
L403	PQLE119	COIL	2	R413	ERDS2TJ331	330	1
L404-407	ELEXT5R6KA	CHOKE COIL	1	R414	ERDS2TJ331	330	1
		COIL	4	R415	ERDS2TJ273	27K	1
PC401, 402	PQVIPC817K	(PHOTO ELECTRIC TRANSDUCERS)		R416	ERX3SJR10	0.1	1
		PHOTO COUPLER	S	R417	ERX3SJ5R6	5.6	1
SA401	PQVDSAE310F1	(VARIATORS)		R418	ERG2SJ221	220	1
SA402, 403	PQVDDSS301F	VARISTOR (SURGE ABSORBER)	1	R419	ER016CKF1002	10K	1
		VARISTOR (SURGE ABSORBER)	2	R420	ER016CKF1131	1.13K	1
Z401	ERZC10DK391U	VARISTOR		R421	ERG1SJ561	560	1
Z402	ERZC10DK182	VARISTOR	▲	R422	ERD2STJ472	4.7K	1
TH401	PORTD5FFL8R0	(THERMISTORS)		R423	ERD2STJ472	4.7K	1
TH402	PQRTE0FFF103	THERMISTOR	1	R424	ER016CKF1201	1.2K	1
T401	ETS28K800A	(TRANSFORMER)		R425	ER016CKF3651	3.65K	1
		TRANSFORMER	1	R426	ERDS1TJ101	100	1
C401	ECQE1A224KF	(CAPACITORS)		R427	ERG2SJ122	1.2K	1
C402	ECKZRS222ME	0.22	▲	R428	ERX1SJ222	0.22	1
C403	ECKZRS222ME	0.0022	▲	R440	ERDS2TJ121	120	1
C404	ECOE1A224KF	0.22	▲				
C405	ECKDRS332ME	0.0033	▲	J401, 402	PQJJ1TA14Y	(JACK & CONNECTORS)	
C406	ECKDRS332ME	0.0033	▲			TEL. JACK	2
C407	ECQE6473B	0.047	▲				
C408	ECES2DA221CX	220	1				
C409	ECQV1H104JZ	0.1	1				
C410	ECQV1H103JZ	0.01	1				
C411	ECOB1H391KF	390P	1				
C412	ECQV1H154JZ	0.15	1				
C413	ECQV1H104JZ	0.1	1				
C414	ECQV1H104JZ	0.1	1				
C415	ECEA1VGE220	22	1				
C416	ECEA1VGE101	100	1				
C417	ECKZRS102ME	0.001	1				
C418	ECEA1VGE471	470	1				
C419	ECQV1H104JZ	0.1	1				
C420	ECEA1VGE471	470	1				
C421	ECQV1H104JZ	0.1	1				
C422	ECEA1VGE471	470	1				
C423	ECCD1H101JC	100P	1				
C424	ECQV1H104JZ	0.1	1				
C425	ECEA1AGE102	1000	1				
C426	ECQV1H104JZ	0.1	1				
C427	ECKD3A221KBN	220P	1				
C428	ECEA1HGE101	100	1				
C429	ECEA1EGE101	100	1				
C430	ECKD3A221KBN	220P	1				
C431	ECEA1VGE101	100	1				
C432	ECEA1EGE470	47	1				
C433	ECKD3A221KBN	220P	1				
C434	ECQV1H104JZ	0.1	1				
C435	ECQV1H104JZ	0.1	1				
C436	ECKD3A221KBN	220P	1				
C437	ECQV1H104JZ	0.1	1				
		(RESISTORS)					
R401	ERDS1TJ474	470K	1				
R402	ERG2SJ104	100K	1				
R403	ERG2SJ683	68K	1				
R404	ERG2SJ683	68K	1				
R405	ERDS1TJ270	27	1				
R406	ERDS2TJ391	390	1				
R407	ERDS2TJ123	12K	1				
R408	ERDS2TJ103	10K	1				
R409	ER016CKF2212	22.1K	1				
R410	ERDS2TJ103	10K	1				
R411	ER016CKF1472	14.7K	1				